



*Products to support*  
**Water/Wastewater  
Sampling and Monitoring  
and Environmental Testing**



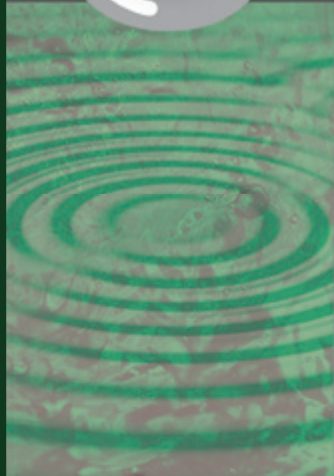
# Water / Wastewater Environmental



**Thomas  
Scientific**

**We Believe You Are Important**  
— *How Can We Help?*

**ThomasSci.com**



**P 800.345.2100 F 800.345.5232**  
**1654 High Hill Road • Swedesboro, NJ 08085**





## Welcome to Thomas Scientific!

Thomas Scientific enjoys a long and prosperous history dating back to 1900. We have developed an extensive network of over 3000 branded manufacturers of products, available at [Thomassci.com](http://Thomassci.com), supporting all corners of science research including life science research and development, quality assurance and quality control, production and also facilities maintenance.

Thomas Scientific's guiding principle is "We Believe You are Important" and this belief guides our every action and investment.

Thomas Scientific is a full line stocking distributor and we have developed a broad portfolio of products to support your operational needs including:

1. Supplies and Consumables
2. Equipment, Instruments and Furniture
3. Chemicals and Reagents
4. Laboratory and Facility Safety and Apparel

If you have a need for a product that is not in our current portfolio let us know...we can source it and add it for your convenience.

Thomas Scientific operates as a classic distributor with a robust sales team to fully support your needs, as well as an online procurement operation in North America and Internationally for Laboratory Supplies and Consumables, Equipment, Instruments and Furniture, as well as, Chemicals and Laboratory Safety and Apparel. Our website, [ThomasSci.com](http://ThomasSci.com), operates as a wholesale and retail Website. Thomas Scientific serves Science through [ThomasSci.com](http://ThomasSci.com) and focuses on selection, price, and convenience.

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- In addition to our website, if you would like a sales representative to be assigned to your account, call us at 1-800-345-2100 and ask for your sales representative today!

Please feel free to contact me with any questions or concerns you may have.

Thank you again for your interest in Thomas Scientific. We look forward to assisting you again soon.

Sincerely,



Charles Simmons,  
President and CEO

**We Believe You Are Important**  
— How Can We Help?

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## Water/Wastewater Analysis

### GE Healthcare Whatman™ 934-AH™ RTU Glass Microfiber Filters

**Save time - Ready to use filters for analysis of Total Suspended Solids**

- Pre-washed and pre-weighed filters in bar-coded pans
- High temperature tolerant –up to 550 C
- Superior fine particle retention at high flow rates
- High loading capacity-process very turbid samples



Thomas No.	Mfr. No.	Description	Pack
1227Z33	9907-042	Microfiber Filter, 934-AH RTU, 42.5mm	100
1227Z34	9907-047	Microfiber Filter, 934-AH RTU, 47mm	100
1227Z35	9907-055	Microfiber Filter, 934-AH RTU, 55mm	100
1205W37	9907-090	Microfiber Filter, 934-AH RTU, 90mm	100

### GE Healthcare Whatman™ 934-AH™ Borosilicate Glass Microfiber Filters

- Superior fine particle retention at high flow rates
- High loading capacity-process samples with high solids



Thomas No.	Mfr. No.	Description	Box
4750D25	1827-032	Grade 934-AH Glass Microfiber Filter, Circle, 32mm	100
4750D27	1827-035	Grade 934-AH Glass Microfiber Filter, Circle, 35mm	100
4750D30	1827-037	Grade 934-AH Glass Microfiber Filter, Circle, 37mm	100
4750D35	1827-042	Grade 934-AH Glass Microfiber Filter, Circle, 42.5mm	100
4750D37	1827-047	Grade 934-AH Glass Microfiber Filter, Circle, 47mm	100
4750D45	1827-055	Grade 934-AH Glass Microfiber Filter, Circle, 55mm	100
4750D50	1827-070	Grade 934-AH Glass Microfiber Filter, Circle, 70mm	100
1212F24	1827-082	Grade 934-AH Glass Microfiber Filter, Circle, 82mm	100
1212F25	1827-085	Grade 934-AH Glass Microfiber Filter, Circle, 85mm	100
4750D55	1827-090	Grade 934-AH Glass Microfiber Filter, Circle, 90mm	100

### GE Healthcare Glass Microfiber Binder Free

Combines fine particle retention with good flow rate. The standard filter in many parts of the world for the collection of suspended solids in potable water and natural and industrial wastes. Fast and efficient clarification of aqueous liquids containing low to medium levels of fine particulates. Widely used for cell harvesting, liquid scintillation counting and binding assays where more loading capacity is required.



Thomas No.	Mfr. No.	Description	Pack
0898Q73	1822-042	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 42.5mm	100
4751K35	1822-047	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 47mm	100
0898Q71	1822-055	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 55mm	100
0898Q70	1822-070	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 70mm	100
0898Q69	1822-090	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 90mm	100
1212F12	1822-050	Grade GF/C Glass Microfiber Filter, Circle, 50mm	100
1212F13	1822-100	Grade GF/C Glass Microfiber Filter, Circle, 100mm	100
0898Q68	1822-110	Grade GF/C Glass Microfiber Filter, Circle, 110mm	100
0898Q67	1822-125	Grade GF/C Glass Microfiber Filter, Circle, 125mm	100
0898Q66	1822-150	Grade GF/C Glass Microfiber Filter, Circle, 150mm	100

### GE Healthcare Type CF pH Indicator Color Bonded Strips

GE Healthcare offers a range of pH indicator and test papers for the rapid determination of pH values in many applications in laboratories and industry. Whatman™ pH papers combine ease-of-use with unsurpassed accuracy and consistency.



Thomas No.	Mfr. No.	Description	Reel	Pack
1219G59	2613-991	pH 0 - 14, 6 x 80mm	—	100
1231J83	2614-991	pH 4.5 - 10, 6 x 80mm	—	100
1212F80	2629-990	pH 6 - 8.1, 11 x 100mm	—	200
1212F78	2627-990	pH 3.8 - 5.5, 11 x 100mm	—	200
1212F72	2611-628	pH 1 - 11, 10mm x 5m	1	—
0898Y86	2600-100A	Standard Full Range, pH 1 - 14, 7mm x 5m	1	—

# Water/Wastewater Analysis

(continued)

## Gosselin Petri Dishes

- The stacking ring is specially designed to improve the stacking of plates
- Class 100 manufacturing environment: Ensures plates have asepsis
- Retains shape up to 55°C
- All plates are ISO 5 (Class 100) aseptic or sterilized



Thomas No.	Mfr. No.	Description	Case
1183C30	SB93-102	Round Petri Dish, PS, Natural, 3 Vents, 90 x 14.2mm, Sterile SAL 10-3, 33/Bag	825

## Ahlstrom Glass Microfiber Filter Grade 169

### Grade 169: 1.0 µm

- Thermally stable to over 550°C
- Total suspended solids determination
- Volatile solids testing
- EPA and ASTM protocols
- Total dissolved solids

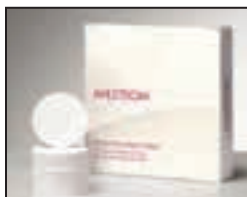
Consistent uniformity and longer shelf life make it possible for custom cut sizes and bulk packaging. Ahlstrom offers eight grades containing no binders or other additives that may cause interference in sensitive enzymatic or other chemical reactions.

### Environmental Laboratory Applications:

**STM 2540 Total, Dissolved, Suspended, Fixed and Volatile Solids**

**STM 2710.B,D,E Tests on Sludges:**

**Oxygen-Consumption Rate, Sludge Volume Index, Zone Settling Rate**



Thomas No.	Mfr. No.	Description	Pack
1203M06	1690-0210	Grade 169, Circle, 2.10cm	100
1201V36	1690-0240	Grade 169, Circle, 2.40cm	100
1201V37	1690-0425	Grade 169, Circle, 4.25cm	100
1201V38	1690-0470	Grade 169, Circle, 4.70cm	100
1201V39	1690-0550	Grade 169, Circle, 5.50cm	100
1201V40	1690-0700	Grade 169, Circle, 7.00cm	100
1203R19	1690-0900	Grade 169, Circle, 9.00cm	100
1201V41	1690-1100	Grade 169, Circle, 11.00cm	100
1201V42	1690-1250	Grade 169, Circle, 12.50cm	100

## Ahlstrom Pre-Weighed Filters

Ahlstrom pre-weighed and pre-washed filters can save time and resources in your laboratory by providing a convenient solution for your suspended solids testing. Each filter is pre-washed and pre-weighed, following the STM 2540 procedures, and provided in an aluminum pan with the identified weight printed on the pan for ease-of-use. Ahlstrom Grade 169 is a binder-free microfiber glass filter filter with product stability to over 550 degrees Centigrade. The temperature resistance makes 169 well-suited for use in volatile solids testing as specified in STM2540E. It is designed to both maintain a stable weight at 550°C and exhibit similar handling characteristics before and after 30 minutes in a 600°C furnace. Flow rate: fast. Retention: 1.1 microns.



Thomas No.	Mfr. No.	Description	Pack
1198X48	169W-0470	Pre-Weighed and -Washed Filter, Grade 169, 47mm diameter	100

## EMD Millipore PetriSlides™ Dish for Microbiological Analysis

Substitute for Petri Dishes. Holds filter securely in place. Transparent cover allows microscopic examination without removal. Rectangular base has rounded corners for mounting on microscope stage. Sterilized storage and examination containers for culturing microorganisms on 47mm membranes, absorbent pad included.



Thomas No.	Mfr. No.	Description	Pack
1217M55	PDMA04700	PetriSlides Dish, Preloaded with Absorbent Pads	100
1217M56	PD1504700	PetriSlides for Contamination Analysis	100

## Simport Petri Dish 50 x 9mm Rimmed

Made of polystyrene these 50 x 9mm sterile petri dishes with absorbent pads are ideal for culturing microorganisms on either agar or broth based media. Designed to accommodate 47 mm diameter membrane filters. These dishes are stackable and have squared off edges on both the top and bottom which provide convenient grips for one handed opening. The snug fitting top ensures that neither the absorbent pad nor the agar media will dry out during incubation. A frosted area on top of lid permits labeling.



Thomas No.	Mfr. No.	Description	Case
1219D00	D210-18A	Absorbent Pad Petri Dishes, 50 x 9mm, w/out Pad	500
1219D01	D210-18B	Absorbent Pad Petri Dishes, 50 x 9mm, w/Pad	500

## WHATMAN™ IS CHANGING TOMORROW TODAY.

Renowned for quality that spans generations, Whatman filtration products are relied on by scientists every day in practically every lab in the world. Today Whatman products are used in more and more applications in every part of science, from filtration to air, water, soil and waste analysis. Explore GE Healthcare's Whatman product areas available through Thomas Scientific!

- Filter papers and membrane filters
- Syringe and syringeless filters
- Capsule filters
- Filtration microplates and accessories
- In-line filters
- Microbiology filtration



Whatman  
Part of GE Healthcare



## GVS Filter Technology Micron-Sep Membrane Filters

Available pre-sterilized or autoclavable with gridded surface. Autoclavable filters come in envelopes of 10 filters and 10 absorbent cellulosic pads. The envelopes are designed to withstand normal autoclaving environments and feature an indicator that changes color after successful autoclaving at 121°C. Pore size of 0.45µm. Sterile packs are packaged the same way but have been pre-sterilized by gamma irradiation.



Thomas No.	Mfr. No.	Description	Box
4641K33	1215230	Membrane, without Pad	200
4641K35	1214923	Membrane, without Pad	1000
4641K37	1215281	Membrane, MCE, w/o Grid, 0.45µm, 47mm	100
4641K39	1215207	Membrane, MCE, w/Grid, 0.45µm, 47mm	100

## Applied Separations ValuSep® Aluminum Pans

These pans are made of smooth wall construction to help prevent the analytes from creeping or wicking out of the pan during the evaporation process. The larger diameter of the 105mm pans enables fast drying of extracts up to 125mL while almost twice as many extracts up to 55mL can be dried per unit area due to this pans smaller diameter.



Thomas No.	Mfr. No.	Description	Pack
1217N27	24505	Pans, Aluminum, 70mm (55mL)	100
1217N28	24506	Pans, Aluminum, 105mm (125mL)	100

## Thomas® Petritite Dishes

Used with a 47mm diameter filter, with or without pad

- Less than 1% moisture loss at 35°C (95°F) over a 24-hour period
- Unique leg design leaves space between dishes for even temperature distribution during incubation
- Optically clear polystyrene, gamma radiation sterilized



Thomas No.	Description	Box	Case
3489B60	Petri Dish, 50 x 9mm, without Pad	100	1000
3489B66	Petri Dish, 50 x 9mm, with Pad	100	1000

## EMD Millipore S-Pak Filters

S-Pak sterile, individually packed, gridded membrane filters are made from mixed esters of cellulose and have been optimized for MF method microbiological analysis of water or other liquids.



Thomas No.	Mfr. No.	Description	Pack
1217M92	HAWG047S6	0.45µm White Gridded S-Pak 47mm	600

## J.G. Finneran 13mm Syringe Filters

Finneran 13mm Syringe Filters with glass fiber membranes are available in 1.0µm, 2.0µm and 5.0µm pore sizes. Glass fiber membranes have fast filtration flow, eliminate sample contamination and have good chemical compatibility. Finneran syringe filters are autoclavable.



Thomas No.	Mfr. No.	Description	Case
1190M42	FEC0213PC	Syringe Filter, 0.2µm Mixed Esters Cellulose, Light Yellow	100
1190M43	FEC0413PC	Syringe Filter, 0.45µm Mixed Esters Cellulose, Dark Yellow	100
1190M44	FPV0213PC	Syringe Filter, 0.2µm PVDF, Light Red	100
1190M45	FPV0413PC	Syringe Filter, 0.45µm PVDF, Dark Red	100
1190M46	FNY0213PC	Syringe Filter, 0.2µm Nylon, Light Green	100
1190M47	FNY0413PC	Syringe Filter, 0.45µm, Nylon, Dark Green	100
1190M48	FPT0213PC	Syringe Filter, 0.2µm PTFE, Light Blue	100
1190M49	FPT0413PC	Syringe Filter, 0.45µm, PTFE, Dark Blue	100
1190M50	FPP0213PC	Syringe Filter, 0.2µm, Polypropylene, Transparent	100
1190M51	FPP0413PC	Syringe Filter, 0.45µm, Polypropylene, White	100
1190M52	FRC0213PC	Syringe Filter, 0.2µm Regenerated Cellulose, Light Brown	100
1190M53	FRC0413PC	Syringe Filter, 0.45µm Regenerated Cellulose, Dark Brown	100
1190M54	FAC0213PC	Syringe Filter, 0.2µm Cellulose Acetate, Light Orange	100
1190M55	FAC0413PC	Syringe Filter, 0.45µm, Cellulose Acetate, Dark Orange	100
1190M56	FPS0213PC	Syringe Filter, 0.2µm Polyethersulfone, Light Purple	100
1190M57	FPS0413PC	Syringe Filter, 0.45µm Polyethersulfone, Dark Purple	100

## J.G. Finneran 25mm Syringe Filters

Finneran 25mm Syringe Filters are available in 0.2µm and 0.45µm pore size. Autoclavable.



Thomas No.	Mfr. No.	Description	Case
1190M80	FEC0225PC	Syringe Filter, 0.2µm Mixed Esters Cellulose, Light Yellow	100
1190M81	FEC0425PC	Syringe Filter, 0.45µm Mixed Esters Cellulose, Dark Yellow	100
1190M82	FPV0225PC	Syringe Filter, 0.2µm PVDF, Light Red	100
1190M83	FPV0425PC	Syringe Filter, 0.45µm PVDF, Dark Red	100
1190M84	FNY0225PC	Syringe Filter, 0.2µm Nylon, Light Green	100
1190M85	FNY0425PC	Syringe Filter, 0.45µm Nylon Dark Green	100
1190M86	FPT0225PC	Syringe Filter, 0.2µm PTFE, Light Blue	100
1190M87	FPT0425PC	Syringe Filter, 0.45µm PTFE, Dark Blue	100
1190M88	FPP0225PC	Syringe Filter, 0.2µm Polypropylene, Transparent	100
1190M89	FPP0425PC	Syringe Filter, 0.45µm Polypropylene, White	100
1190M90	FRC0225PC	Syringe Filter, 0.2µm Regenerated Cellulose, Light Brown	100
1190M91	FRC0425PC	Syringe Filter, 0.45µm Regenerated Cellulose, Dark Brown	100
1190M92	FAC0225PC	Syringe Filter, 0.2µm Cellulose Acetate, Light Orange	100
1190M93	FAC0425PC	Syringe Filter, 0.45µm Cellulose Acetate, Dark Orange	100
1190M94	FPS0225PC	Syringe Filter, 0.2µm Polyethersulfone, Light Purple	100
1190M95	FPS0425PC	Syringe Filter, 0.45µm Polyethersulfone, Dark Purple	100

# Water/Wastewater Analysis

(continued)

## Nasco Whirl-Pak® Water Sample Bags

- Sterile polyethylene bags with sodium thiosulfate
- Disposable, transparent bags for water sampling
- With white marking strip and 4 oz. fill line

For dechlorinating water samples in accordance with APHA Standard Methods for the Examination of Water and Wastewater, 17th Ed. (1989), Method 1060 B. Sterilized by ethylene oxide. Should not be used at temperatures near or at the boiling point (212°F, 100°C). Approved by the FDA and USDA for food sampling. Carton of 100, contains 4 packages of 25 bags.

Thomas No.	Mfr. No.	Description	Container	Bag
1303R90	B01040WA	Bag, Thio-Bag® Water Sampling, 100 mL	100	—
1303R92	B01254WA	Bag, Thio-Bag® Water Sampling, 300mL	—	100



## Nasco Stand-Up Whirl-Pak® Thio-Bags®

The job of collecting water samples is easier with the Whirl-Pak® Stand-Up Thio-Bag®! A special gusset on the bottom of the bag flattens out when water is put in the bag, allowing it to stand up completely by itself. No rack or other holder is needed to keep the bag upright. Forget washing and sterilizing glass bottles and disposing of expensive vials. Sterile and unbreakable, these bags will save time and money whether working in the lab or in the field. Each bag contains 10mg of active sodium thiosulfate to neutralize chlorine in the sample.

Thomas No.	Mfr. No.	Description	Box
1221T97	B01402WA	100mL Stand-Up Thio-Bag®	100
1221T98	B01403WA	300mL Stand-Up Thio-Bag®	100



## Nasco Whirl-Pak® Sterile Sample Bags with Write-On Surface

Disposable, transparent bags for liquid or solid samples.

- Polyethylene
- Supplied sealed

Top tears open easily along perforations. Mouth reinforced by a wired band with integrated loop tabs which serve as handles. Band holds bag open for easy filling.

Thomas No.	Mfr. No.	Description	Box
1303N44	B01062WA	Whirl-Pak Write-On Bags, 4 oz (118mL), Yellow Tape	500
1303N46	B01065WA	Whirl-Pak Write-On Bags, 18 oz (532mL), Yellow Tape	500
1303N48	B01297WA	Whirl-Pak Write-On Bags, 24 oz (710mL), Yellow Tape	500
1159M76	B01062(BT)WA	Whirl-Pak Write-On Bags, 4 oz (118mL), Blue Tape	500
1159M77	B01062(RT)WA	Whirl-Pak Write-On Bags, 4 oz (118mL), Red Tape	500
1159M78	B01062(WT)WA	Whirl-Pak Write-On Bags, 4 oz (118mL), White Tape	500



## Thermo Scientific™ Nalgene™ Clear Polycarbonate Imhoff Cone and Rack

### Resists breakage

- For determining levels of settleable matter in water and waste effluent
- Also used to measure sand content in well water

Leakproof polypropylene screw closure makes it possible to withdraw sediment for gravimetric analysis and also aids in cleaning. Graduated, for measurement of sediment, from 0 to 1mL in 0.1mL; 1 to 10mL in 0.5mL; 10 to 40mL in 1mL; 40 to 100mL in 10mL; 100 to 500mL in 50mL; and 500mL to 1 liter in 100mL divisions. Overall height 45mm; o.d. at top 106mm; i.d. at tip 6mm.

Thomas No.	Mfr. No.	Description	Each	Case
3260F10	1000-0010	Imhoff Cone, Polycarbonate	1	4
3260J10	1001-0010	Imhoff Cone Rack	1	4



## Nasco Whirl-Pak® Stand-Up Sample Bags

The Whirl-Pak® Stand-Up Bag makes sample handling and testing much easier because it gives users the ability to perform important laboratory functions with both hands, because the bag will stand completely by itself. No rack or other holder is needed to keep the bag upright. When the sample is placed inside, the special gusseted bottom flattens out, allowing the bag to stand up on its own. It works just like a beaker or bottle, however, it costs less, is sterilized, won't break, and uses only a fraction of storage space as the other containers.

The white, write-on strip makes sample identification easier and more convenient. It's easy to write on this white strip using an ordinary ballpoint pen, pencil, or felt-tip marker. The paper-like finish virtually eliminates ink smearing, and provides a surface that will accept a variety of writing instruments.

Capacity is measured in fluid ounces when the bag is closed and tab is folded over three times. Volume and dimensions are approximate; bags should not be used at temperatures above 180° F (82° C). Bags can be frozen to any temperature, even liquid nitrogen – careful handling required after freezing. All bags are sterilized after manufacturing.

Thomas No.	Mfr. No.	Description	Box
1303R01	B01364WA	4 oz, 120 ml Stand-Up bag	500
1303R05	B01365WA	18 oz, 532 ml Stand-Up bag	500
1221U01	B01401WA	24 oz, 710 ml Stand-Up bag	500
1221U03	B01449WA	36 oz, 1,065 ml Stand-Up bag	500
1221U04	B01450WA	42 oz, 1,242 ml Stand-Up bag	500
1221U05	B01451WA	69 oz, 2,041 ml Stand-Up bag	500



For more Filter options, please visit  
**thomassci.com** Keyword: filters

## Thermo Scientific™ Nalgene™ Polypropylene Copolymer Beakers

### Unbreakable in ordinary use

- Autoclavable
- Superior chemical resistance
- Break resistant with ribs for easy stacking, maximum temperature use 135°C

Contact-clear wall allows easy observation of liquid level within the beaker. 30 and 50mL beakers are graduated in 5mL intervals; 100 and 150mL beakers are graduated in 10mL intervals; 250 and 400mL beakers are graduated in 25mL intervals; 600 and 1000mL beakers are graduated in 50mL intervals; 2,000mL beakers are graduated in 200mL intervals; and 4,000mL beakers are graduated in 250mL intervals. Not for use on hotplates. Meets the ISO/DIN 7056 International Standards for Laboratory Plasticware Accuracy.

Thomas No.	Mfr. No.	Description	Pack	Case
1542E06	1201-0030	Beaker, 30mL	12	48
1542E16	1201-0050	Beaker, 50mL	12	48
1542E26	1201-0100	Beaker, 100mL	12	48
1542E36	1201-0150	Beaker, 150mL	12	48
1542E46	1201-0250	Beaker, 250mL	6	36
1542E56	1201-0400	Beaker, 400mL	6	36
1542E66	1201-0600	Beaker, 600mL	4	24
1542E76	1201-1000	Beaker, 1,000mL	3	12
1542E85	1201-2000	Beaker, 2,000mL	1	6
1542E95	1201-4000	Beaker, 4,000mL	1	4



## Corning PYREX® Brand Class A Volumetric Flasks

- With barrel-shaped Standard Taper glass stopper
- Calibrated to contain at 20°C

The strength of these flasks has been increased appreciably through machine-blown bodies to which are sealed heavy-tubing necks tooled for glass stoppers. The graduation line is sharp and permanent and large white block letters make the inscription easy-to-read.

Thomas No.	Mfr. No.	Description	Each	Pack	Case
4997B13	5640-1	Flask, Volumetric, 1mL	—	—	12
4997B19	5640-2	Flask, Volumetric, 2mL	—	—	12
4997B30	5640-10	Flask, Volumetric, 10mL	—	—	12
4997B35	5640-25	Flask, Volumetric, 25mL	—	6	12
4997B41	5640-50	Flask, Volumetric, 50mL	—	6	12
4997B47	5640-100	Flask, Volumetric, 100mL	—	6	12
4997B51	5640-200	Flask, Volumetric, 200mL	—	6	12
4997B57	5640-250	Flask, Volumetric, 250mL	—	6	12
4997B63	5640-500	Flask, Volumetric, 500mL	—	6	12
4997B70	5640-1L	Flask, Volumetric, 1,000mL	—	6	12
4997B76	5640-2L	Flask, Volumetric, 2,000mL	1	—	4



## Corning PYREX® Class A Graduated Cylinders

PYREX® Class A single metric scale graduated glass cylinders are calibrated "to deliver" in accordance with ASTM E-1272 and ASTM E-542. Each cylinder is individually serialized and supplied with a Certificate of Identification and capacity, traceable to NIST standards. Permanent white graduations are easy-to-read. Bumper guards are supplied with 25mL through 2000mL inclusive. The 10mL size has a funnel top.

Thomas No.	Mfr. No.	Description	Case
3566D13	3062-10	Pyrex Certified / Serialized Cylinder, 10mL x 0.1mL	1
3566D18	3062-25	Pyrex Certified / Serialized Cylinder, 25mL x 0.2mL	1
3566D23	3062-50	Pyrex Certified / Serialized Cylinder, 50mL x 1mL	1
3566D28	3062-100	Pyrex Certified / Serialized Cylinder, 100mL x 2mL	1
3566D33	3062-250	Pyrex Certified / Serialized Cylinder, 250mL x 5mL	1
3566D43	3062-1L	Pyrex Certified / Serialized Cylinder, 1000mL x 10mL	1
3566D93	3062-2L	Pyrex Certified / Serialized Cylinder, 2000mL x 20mL	1



## Corning PYREX® Brand Accu-Red Burets With Class A, Teflon Stopcock

The capacity tolerance on these burets is established by ASTM E 287 and they are calibrated in accordance with ASTM E 542. Tips are carefully drawn from accurate bore tubing to ensure proper drainage rates. This buret has colored markings, fine, sharp lines and large easy-to-read numbers. The stopcock barrel has a smooth micro-finish.

Thomas No.	Mfr. No.	Description	Case
1980F10	2103-10	Buret 10mL	1
1980F20	2103-25	Buret 25mL	1
1980F30	2103-50	Buret 50mL	1
1980F40	2103-100	Buret 100mL	1



## Thermo Scientific™ Nalgene™ Economy Polypropylene Copolymer Graduated Cylinders

- Large, easy-to-read raised graduations
- Large rounded bases are ribbed for reinforcement and stability
- All sizes have generous pour spout; 10mL size has a conical top for easier filling and pouring; non-wetting
- Calibrated to contain and deliver at 20°C
- Autoclavable, but repeated autoclaving will affect accuracy
- Excellent chemical resistance and contact-clarity

Thomas No.	Mfr. No.	Description	Each	Case
3571A10	3664-0010	Cylinder, Polypropylene, Graduated, Economy, 10mL	1	24
3571A15	3664-0025	Cylinder, Polypropylene, Graduated, Economy, 25mL	1	18
3571A20	3664-0050	Cylinder, Polypropylene, Graduated, Economy, 50mL	1	18
3571A25	3664-0100	Cylinder, Polypropylene, Graduated, Economy, 100mL	1	12
3571A30	3664-0250	Cylinder, Polypropylene, Graduated, Economy, 250mL	1	12
3571A35	3664-0500	Cylinder, Polypropylene, Graduated, Economy, 500mL	1	8
3571A40	3664-1000	Cylinder, Polypropylene, Graduated, Economy, 1000mL	1	6



**Thomas is your source for all of your  
Corning and GE needs!**



# Water/Wastewater Analysis

(continued)

## labForce (a Thomas Scientific Brand) Serological Pipets

- Certified for ScienceSM - pipets are clean room manufactured, gamma irradiated to SAL 10-6, certified free from DNase, RNase, and Pyrogens, and meet the requirements for the most critical scientific testing methods
- Reverse graduations for convenient aspiration and dispensing
- Negative graduations on all sizes and to -10 mL on 25mL and 50mL pipets



Thomas No.	Description	Case
1163Y19	1mL, Individually Wrapped, 1/100 Divisions, Yellow Band, Sterile, 100/bag	500
1163Y20	2mL, Individually Wrapped, 1/100 Divisions, Green Band, Sterile, 100/bag	500
1163Y21	5mL, Individually Wrapped, 1/10 Divisions, Blue Band, Sterile, 50/bag	200
1163Y22	10mL, Individually Wrapped, 1/10 Divisions, Orange Band, Sterile, 50/bag	200
1163Y23	25mL, Individually Wrapped, 2/10 Divisions, Red Band, Sterile, 50/bag	200
1163Y24	50mL, Individually Wrapped, 5/10 Divisions, Purple Band, Sterile, 30/bag	100
1163Y25	1mL, Bulk Packed, 1/100 Divisions, Yellow Band, Sterile, 25/bag	500
1163Y26	2mL, Bulk Packed, 1/100 Divisions, Green Band, Sterile, 25/bag	500
1163Y27	5mL, Bulk Packed, 1/10 Divisions, Blue Band, Sterile, 25/bag	500
1163Y28	5mL, Bulk Packed, 1/10 Divisions, Blue Band, Sterile, 25/bag	500
1163Y29	25mL, Bulk Packed, 2/10 Divisions, Red Band, Sterile, 25/bag	200
1163Y30	50mL, Bulk Packed, 5/10 Divisions, Purple Band, Sterile, 25/bag	100

## labForce (a Thomas Scientific Brand) Ultra-High-Speed 15mL & 50mL Polypropylene Centrifuge Tubes

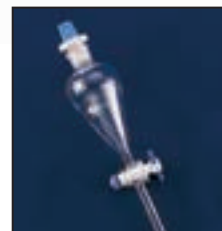
- **Ultra-High Performance** - High spin rates with maximum RCF ratings of up to 20,000 x g for 50mL centrifuge tubes and 17,000 x g for 15mL centrifuge tubes
- **Certified for ScienceSM** - Tubes are manufactured in a class 100,000 clean room, gamma irradiated to SAL 10-6, and are certified to be free from DNase, RNase, Human DNA, Pyrogens, and Endotoxins, giving you peace of mind to know they meet the requirements for the most critical scientific testing methods
- **Value** - Efficient automated production reduces cost and assures high quality products that is consistent from lot to lot
- **Premium Materials** - USP Class VI resin is also FDA CFR 21 compliant for food safety
- **Leak Resistant** - Easy Grip Caps have an integral seal ring design for secure closures that eliminate leakage when used as recommended
- **Ease of Use** - Exceptionally clear tubes have black printed graduation marks to full volume of 15mL or 50mL, a bright white marking space, and are packaged in heavy duty, zip, re-closable bags for easy use
- **Eco Friendly** - Paperboard racks are readily recyclable in the well-established paper recycling stream



Thomas No.	Description	Case
1163X42	Centrifuge Tube, High Performance, 15mL, Red Screw Cap, Assembled, PP, Printed Graduations, STERILE, 25/Bag, 20 Bags/Unit	500
1163X43	Centrifuge Tube, High Performance, 15mL, Red Screw Cap, Assembled, PP, Printed Graduations, STERILE, 25/Rack, 20 Racks/Unit	500
1163X44	Centrifuge Tube, High Performance, 50mL, Red Screw Cap, Assembled, PP, Printed Graduations, STERILE, 25/Bag, 20 Bags/Unit	500
1163X45	Centrifuge Tube, High Performance, 50mL, Red Screw Cap, Assembled, PP, Printed Graduations, STERILE, 25/Rack, 20 Racks/Unit	500

## Corning PYREX® Squibb Separatory Funnels with Plastic Stopper

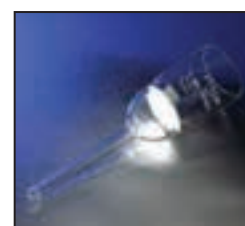
- PTFE stopcock plug and Standard Taper polyethylene stopper
- Stem length of 65 mm
- PYREX® borosilicate glass body



Thomas No.	Mfr. No.	Description	Each	Case
5246L10	6404-60	Funnel Separatory 60mL	1	4
5246L16	6404-125	Funnel Separatory 125mL	1	4
5246L25	6404-250	Funnel Separatory 250mL	1	4
5246L28	6404-500	Funnel Separatory 500mL	1	4
5246L34	6404-1L	Funnel Separatory 1000mL	—	1
5246L40	6404-2L	Funnel Separatory 2000mL	1	—

## Corning PYREX® Buchner Filter Funnels with Fritted Glass Disc Design

- For use without filter paper
- Offered in nine sizes and three porosities
- Pore sizes 40 to 60µm = C, 10 to 15µm = M and 4 to 6µm = F
- With square-cut, fire-polished rim



These funnels are especially useful where filter paper would be attacked by the material being filtered. The disc should not be subjected to pressure differential in excess of 1 atmosphere. The top edge is beaded.

Thomas No.	Mfr. No.	Description	Each	Case
5220F40	36060-2F	Funnel Filter Type 2F	—	1
5220F58	36060-15F	Funnel Filter Type 15F	1	6
5220F64	36060-30C	Funnel Filter Type 30mL, C	1	6
5220F70	36060-30M	Funnel Filter Type 30M	1	6
5220F76	36060-30F	Funnel Filter Type 30F	1	6
5220F82	36060-60C	Funnel Filter Type 60C	1	6
5220F88	36060-60M	Funnel Filter Type 60mL, M	1	6
5220F94	36060-60F	Funnel Filter Type 60F	1	6
5220G10	36060-150C	Funnel Filter Type 150C	1	4
5220G22	36060-150F	Funnel Filter Type 150F	1	4
5220G28	36060-350C	Funnel Filter Type 350mL, C	1	3
5220G34	36060-350M	Funnel Filter Type 350M	1	3
5220G52	36060-600M	Funnel Filter Type 600M	1	3
5220G58	36060-600F	Funnel Filter Type 600F	—	1
5220G82	36060-2LC	Funnel Filter Type 2000C	1	2
5220G90	36060-2LF	Funnel Filter Type 2000F	—	1
5220G93	36060-3LC	Funnel Filter Type 3000C	—	1
5220G95	36060-3LM	Funnel Filter Type 3000M	—	1
5220G97	36060-3LF	Funnel Filter Type 3000F	—	1



## Thermo Scientific™ Nalgene™ Separatory Funnels

Funnel can be autoclaved; stopcock can be chemically sterilized. No stopcock lubrication needed.

- So transparent that phase interface is visible down to the stopcock and nonwetting surface—enhances complete drainage
- Break-resistant and impervious to any chemical used in a separatory funnel
- No phthalates to contaminate analyses
- Useful in radiological and hazardous separations
- Autoclavable/Leakproof

Ordering Alerts: Stem lengths, 65mm. Autoclavable except stopcock assembly, which is easily removed for chemical sterilization

Thomas No.	Mfr. No.	Description	Each	Case
0656J12	4301-0125	Separatory Funnel FEP 125mL	—	4
0656J10	4301-0250	Separatory Funnel FEP 250mL	—	4
0656J07	4301-0500	Separatory Funnel FEP 500mL	—	4
0656J05	4301-1000	Separatory Funnel FEP 1,000mL	—	4
5248A10	4301-2000	Separatory Funnel, FEP 2,000mL	1	2



## Thermo Scientific™ Nalgene™ Polypropylene Buchner Funnels

- Lightweight and durable
- Bottom and top can be separated for easier cleaning
- Autoclavable

Thomas No.	Mfr. No.	Description	Each	Case
5214Q23	4280-0550	Funnel Buchner PP 55mm	1	8
5214Q29	4280-0700	Funnel Buchner PP 70mm	1	6
5214Q35	4280-0900	Funnel Buchner PP 90mm	1	4
5214Q41	4280-1100	Funnel Buchner PP 110 mm	1	4
5214Q47	4280-1500	Funnel Buchner PP 150mm	1	4



## Dynalon Polyethylene Dipper

- High density polyethylene dipper for removing samples from large tanks
- Lightweight but durable
- Available in three popular sizes: 3, 6 and 12 foot (both 12 foot sizes supplied with 2-piece handle for economy in shipping and storage)
- Supplied with a 500mL or a 1,000mL beaker, graduated



Thomas No.	Mfr. No.	Description	Each
8254R40	107075	Dipper, 3-Foot Handle, with 500mL Beaker	1
8254R45	107085	Dipper, 6-Foot Handle with 500mL Beaker	1
8254R50	107095	Dipper, 12-Foot Handle with 500mL Beaker	1
8254R55	106505	Dipper, 3-Foot Handle with 1000mL Beaker	1
8254R60	106515	Dipper, 6-Foot Handle with 1000mL Beaker	1
8254R65	106525	Dipper, 12-Foot Handle with 1000mL Beaker	1

## Dynalon Drum Samplers

- Manufactured from chemically-resistant polypropylene
- Specifically designed for easy effective sampling of 55 gallon drums or vessels with openings as small as 2 inch id
- The 100 mL bottle easily passes through the opening for quick filling
- The 4-inch T-design handle prevents dropping of sampler into the opening of the drum
- Handle available in 3- or 8-foot length x 1-1/4" diameter



Thomas No.	Mfr. No.	Description	Each
8254R30	114505-0100	Drum Sampler, 3' Handle	1
8254R36	114525-0500	Liquid Sampler, 8' Handle	1

## Dynalon Dippas® Single Use Polystyrene Samplers

Enable samples of liquid or powder to be taken and sent for testing in the same container, eliminating risk of cross contamination.

- Sterile
  - Available in blue and clear
- The handle can be neatly snapped off once the sample has been taken. All Dippas come individually wrapped and are guaranteed sterile by gamma irradiation. Blue Dippas are highly visible in product samples.



Thomas No.	Mfr. No.	Description	Case
1229S07	507054-0030	Dippas Clear PS, PP Screw Closure, 30mL	50
1229S08	507054-B030	Dippas Blue PS, PP Screw Closure, 30mL	50
1229S09	507054-0100	Dippas Clear PS, Metal Screw Closure, 100mL	100
1229S10	507054-B100	Dippas Blue PS, Metal Screw Closure, 100mL	100
1229S11	507054-0250	Dippas Clear PS, Metal Screw Closure, 250mL	50
1229S12	507054-B250	Dippas Blue PS, Metal Screw Closure, 250mL	50

## Voss Bailers

### SingleSample® Disposable Polyethylene Bailers

- Eliminates field clean-up and cross-contamination
- Each unit individually decontaminated with Liquinox™ washing and DI water rinse
- Capacity approximately 1 L
- Friction-fit nozzle for easy, no-splash sample removal

For use in all ground wells with two inches i.d. or larger. Overall length 36"; 1.5" i.d x 1.562" o.d. Packaged in individually sealed bags to maintain cleanliness during transport.



Thomas No.	Mfr. No.	Description	Each	Case
8254G80	91946-S	Bailer, Polyethylene	1	24
8254G84	91946-SW	Bailer, Polyethylene, Weighted	1	24

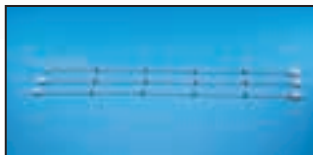
Looking for a Sample Container?  
See pages 43-44

# Water/Wastewater Analysis

(continued)

## Nasco The Sludge Judge®

The Sludge Judge® is designed to take accurate readings of settleable solids, 5% or less, in a variety of liquids, to any depth



- It is ideal for sewage treatment plants, chemical plants, and food processing facilities - anywhere that accurate sample levels of settleable solids in noncaustic materials are needed.
- The unit holds approximately 3 oz. per foot (89 ml per 0.31 m).
- The Sludge Judge® comes in 5 ft. (1.53 m) sections of 3/4" (1.90 cm) plastic pipe with screw-type connectors.
- The top section includes a nylon rope for raising and lowering the sampler. Individual sections can be combined as required to achieve the length needed.
- A convenient cotton canvas carrying case that holds four sections, a cleaning brush, cleaning rod, and cotton strips are available.

Thomas No.	Mfr. No.	Description	Box
8257M32	C09247WA	Sludge Judge, 15 ft.	1
1187K75	B01291WA	Cleaning Brush for Sludge Judge, 6 ft. (1.83 m)	1
1178L37	C09250WA	Bottom Section for Sludge Judge, with Valve, 5 ft. (1.53 m)	1
1178L38	KSS-67110-DE	Middle/Extension for Sludge Judge, 5 ft. (1.53 m)	1

## Bürkle Dipping Vessel

- With Easy-Flow, the flow optimised flow valve
- High weight (2.1 kg) for faster lowering
- Contents 1000 ml
- Height with handles 427 mm
- Made of non-spark producing brass or stainless steel AISI 304 (1.4301) for Ex area
- Please order the appropriate lowering cable at the same time
- Tested for use in the Ex protection zone 0
- Explosion Categories IIA, IIB and IIC
- Dipping vessels are heavy. Lowering requires the use of special manually-operated drum reels with a large winding diameter.



Thomas No.	Mfr. No.	Description	Each
1158Y86	5365-1000	Dipping vessel, brass, 1000ml, hxØ 427x82mm	1
1158Y87	5365-2000	Dipping vessel, V2A, 1000 ml, hxØ 427x82mm	1

## Bürkle Dipping Bottle Ex

Dipping bottle for testing mineral oil products Category A, Explosion Categories IIA, IIB and IIC, crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants. Completely made from non-spark producing materials, nickel-plated.

- Screw-off bottle head - easy cleaning
- Robust handle
- High weight (3.2 kg) for fast lowering
- 1000 ml contents
- Height with handles 443 mm
- Please order the appropriate lowering cable at the same time



Thomas No.	Mfr. No.	Description	Each
1158Y88	5365-3000	Dipping bottle EX, MS, 1000 ml, Ø 89 mm, 3.2 kg	1

## Bürkle Dipping Bottle

Dipping bottle with glass container for sampling in sewage plants, for mud and water samples.

- With Easy-Click, safe and practical closure for a rapid bottle exchange
- High weight (3.3 kg) for fast lowering
- Bottle made of transparent glass 1000 ml contents
- Height with handles 330 mm
- Please order the appropriate lowering cable at the same time
- Tested for use in the Ex protection zone 0



Thomas No.	Mfr. No.	Description	Each
1158Y89	5365-4000	Dipping bottle, 1000 ml, hxØ 330x148 mm, 3.3 kg	1

## Starplex Scientific Sodium Thiosulfate Tablet

Tablets are an ideal reducing agent for dehalogenating water samples prior to bacterial or organic testing.

- Leak resistant Polypropylene 120mL (4 oz.) container with O-ring cap
- Sterile with tab to ensure integrity
- Includes Sodium Thiosulfate tablet
- Lot number traceable on every container
- ID label
- Expiry dated



Thomas No.	Mfr. No.	Description	Case
1219J21	B1202-TS	120mL (4 oz.), Sodium Thiosulfate Tablets	300

## Interlab PolySeed® BOD Seed Inoculum Capsules

- EPA accepted
- Non-pathogenic
- Free of nitrifying microorganisms
- To use, mix contents of one (1) capsule with 0.5 L of APHA standard dilution water at 20°C (68°F), stir for at least 60 minutes
- Mixture yields seed inoculum for up to 200 BOD5 tests
- Shelf life 2 years
- Also available as PolySeed NX, which contains an approved chemical additive for the inhibition of ammonia nitrogen (NH3-N) in wastewater samples for CBOD5 analysis



Thomas No.	Mfr. No.	Description	Box
9855D20	P-110	Polyseed® BOD Seed Inoculum Capsules	50

## Interlab PolySeed NX®

- Eliminates hassle and time required to add inhibition chemical
- Non-pathogenic
- Free of nitrifying microorganisms
- To use, mix contents of one (1) capsule with 0.5 L of APHA standard dilution water at 20°C (68°F), stir for at least 60 minutes
- Mixture yields seed inoculum for up to 200 CBOD5 tests
- Shelf life 2 years



Thomas No.	Mfr. No.	Description	Pack
9855D30	P-210	Polyseed® BNX, Vial	50



## CHEMetrics

### COD Analysis Kits

- US EPA-approved
- Mercury-free COD kits

CHEMetrics' leakproof reagent vials contain pre-measured solutions of sulfuric acids and potassium dichromate. CHEMetrics' COD vials can be directly used with CHEMetrics' single analyte COD photometers, as well as Hach's spectrophotometers.



Thomas No.	Mfr. No.	Description	Pack
1230Z01	K-7350S	COD Vials Kit, 0-150 ppm	25
1230Z02	K-7351S	COD Mercury Free Vials Kit, 0-150 ppm	25
1233R93	K-7355	COD Vials Kit, 0-150 ppm	150
1233R94	K-7356	COD Mercury Free Vials Kit, 0-150 ppm	150
1230Z03	K-7360S	COD Vials Kit, 0-1500 ppm	25
1230Z04	K-7361S	COD Mercury Free Vials Kit, 0-1500 ppm	25
1233R97	K-7365	COD Vials Kit, 0-1500 ppm	150
1233R98	K-7366	COD Mercury Free Vials Kit, 0-1500 ppm	150
1230Z05	K-7370S	COD Vials Kit, 0-15,000 ppm	25
1230Z06	K-7371S	COD Mercury Free Vials Kit, 0-15,000 ppm	25

## Hach

### DPD Free Chlorine and Total Chlorine Powder Pillows

- US EPA accepted for reporting drinking water analysis using Hach Method 8021
- US EPA accepted for reporting drinking and wastewater analysis using Hach Method 8167



Thomas No.	Mfr. No.	Description	Each
9866Q59	1407099	DPD Free Chlorine Powder Pillows 25mL	100
3241D57	1407799	DPD Free Chlorine Powder Pillows 5mL	100
3241D55	1407699	DPD Total Chlorine Powder Pillows 5mL	100
9866N91	1406499	DPD Total Chlorine Powder Pillows 25mL	100

## CoorsTek

### Porcelain Evaporating Dishes with Spout

- Maximum use temperature 1150°C
- Sizes up to and including 250mL are glazed throughout with exception of rim



Thomas No.	Mfr. No.	Description	Each	Case
3820E25	60197	Evaporating Dish, 75 x 30mm, 70mL	1	48
3820E35	60198	Evaporating Dish, 80 x 30mm, 80mL	1	24
3820E55	60200	Evaporating Dish, 90 x 37mm, 120mL	1	24
3820E65	60201	Evaporating Dish, 100 x 42mm, 150mL	1	18
3820E75	60202	Evaporating Dish, 115 x 45mm, 250mL	1	18

## CoorsTek

### Porcelain High Form Crucibles

- Glazed throughout with the exception of outside bottom surface
- Outside diameter is measured at the top of the crucible



Thomas No.	Mfr. No.	Description	Each	Case
3319B31	60104	Crucible, High Form, 10mL, 30 x 26 mm	1	72
3319B38	60105	Crucible, High Form, 15mL, 35 x 29 mm	1	72
3319B52	60107	Crucible, High Form, 30mL, 43 x 37 mm	1	36
3319B59	60108	Crucible, High Form, 40mL, 47 x 40 mm	1	36
3319B66	60109	Crucible, High Form, 50mL, 51 x 43 mm	1	24
3319B73	60110	Crucible, High Form, 100mL, 62 x 54 mm	1	24

## CoorsTek

### Porcelain Squat Form Crucibles

- Glazed throughout with the exception of outside bottom surface



Thomas No.	Mfr. No.	Description	Each	Case
3319K73	60139	Crucible, Wide Form 150mL, 84 x 52mm	1	18
3319K45	60135	Crucible, Wide Form 17mL, 41 x 26mm	1	48
3319K52	60136	Crucible, Wide Form 30mL, 50 x 31mm	1	36
3319K66	60138	Crucible, Wide Form 100mL, 76 x 49mm	1	24

## CoorsTek

### Porcelain Gooch Crucibles

- With perforated bottom
- Used for suspended solids determinations



Thomas No.	Mfr. No.	Description	Each	Case
3320C41	60148	Crucible, Gooch 25 ml, 36 X 41 mm	1	24
3320C62	60151	Crucible, Gooch 40 ml, 40 X 47 mm	1	18

## CoorsTek

### Porcelain Crucible Covers

- Glazed all over except for rim



Thomas No.	Mfr. No.	Description	Each	Case
3319D37	60123	Crucible Cover, 38mm	1	72
3319D44	60124	Crucible Cover, 45mm	1	72
3319D51	60125	Crucible Cover, 54mm	1	72

## Dynalox

### Evaporating Dishes

#### Tall form with pouring spout

- Pure PTFE, heavy wall, smooth internal finish
- Inert and usable to 280°C
- Other sizes available



Thomas No.	Mfr. No.	Description	Each
3833T81	355304-0100	Evaporating Dishes, 100mL	1
3833T84	355304-0150	Evaporating Dishes, 150mL	1
3833T87	355304-0180	Evaporating Dishes, 180mL	1

For more **COD** and **DPD** Chemicals,  
see Chemical Section starting on page 48

# Water/Wastewater Analysis

(continued)

## DWK Life Sciences (Wheaton) 300mL BOD Bottles with Pennyhead Stoppers and Stopperless

BOD bottles are suitable for incubating diluted samples of sewage, sewage effluents, polluted waters, and industrial wastes to determine the amount of oxygen required during the stabilization of the decomposable organic matter by aerobic biochemical action. These 300mL capacity bottles are recommended for the five-day BOD test as referenced in Standard Methods for the Examination of Water and Wastewater, 18th Edition, 5210B, 1992.



Thomas No.	Mfr. No.	Description	Case
1781M01	227497-00G	BOD Bottle, 300mL, Penny-Head Stopper, Unnumbered	24
1781M04	227497-01G	BOD Bottle, 300mL, Penny-Head Stopper, No. 1-24	24
1781M07	227497-02G	BOD Bottle, 300mL, Penny-Head Stopper, No. 25-48	24
1781M10	227497-03G	BOD Bottle, 300mL, Penny-Head Stopper, No. 49-72	24
1781M13	227497-04G	BOD Bottle, 300mL, Penny-Head Stopper, No. 73-96	24
1234R49	227497-05G	BOD Bottle, 300mL, Penny-Head Stopper, No. 97-120	24
1234R50	227497-06G	BOD Bottle, 300mL, Penny-Head Stopper, No. 121-144	24
1234R51	227497-07G	BOD Bottle, 300mL, Penny-Head Stopper, No. 145-168	24
1234R52	227497-08G	BOD Bottle, 300mL, Penny-Head Stopper, No. 169-192	24
1234R53	227497-09G	BOD Bottle, 300mL, Penny-Head Stopper, No. 193-216	24
1234R54	227497-10G	BOD Bottle, 300mL, Penny-Head Stopper, No. 217-240	24
1234R55	227497-11G	BOD Bottle, 300mL, Penny-Head Stopper, No. 241-264	24
1234R56	227497-12G	BOD Bottle, 300mL, Penny-Head Stopper, No. 265-288	24
1234R57	227497-13G	BOD Bottle, 300mL, Penny-Head Stopper, No. 289-312	24
1234R58	227497-14G	BOD Bottle, 300mL, Penny-Head Stopper, No. 313-336	24
1234R59	227497-15G	BOD Bottle, 300mL, Penny-Head Stopper, No. 337-360	24
1234R60	227497-16G	BOD Bottle, 300mL, Penny-Head Stopper, No. 361-384	24
1234R61	227497-17G	BOD Bottle, 300mL, Penny-Head Stopper, No. 385-408	24
1233M38	227497-18G	BOD Bottle, 300mL, Penny-Head Stopper, No. 409-432	24
1233M44	227498	BOD Bottle, 300mL, Stopperless	24

## DWK Life Sciences (Wheaton) BOD Bottle Accessories

BOD Bottle Racks are constructed of coated wire. 1215X63 holds up to twenty 60mL BOD Bottles and 1220C96 holds up to twelve 300mL BOD Bottles. Polyethylene cap with a closed cell foam insert (1781N85) snaps firmly over the flared mouth of Wheaton BOD bottles. This closure prevents the evaporation of the water seal during the five-day BOD incubation period. The foam insert fits into the cap and exerts pressure on the bottle stopper to hold it securely in place. Replacement Stoppers are available in Pennyhead (1234R62) or Robotic (1234R63) styles.



Thomas No.	Mfr. No.	Description	Case
1234R63	227670	BOD Stopper, Glass Robotic, Replacement for 60 or 300mL BOD Bottles	12
1234R62	227672	BOD Stopper, Glass Pennyhead, Replacement for 60 or 300mL BOD Bottles	12
1781N85	227723	Cap with foam insert for BOD Bottles	50
1215X63	W227729	Rack, Holds Twenty 60mL BOD Bottles	1
1220C96	W227731	Rack, Holds Twelve 300mL BOD Bottles	1

## Environmental Express Disposable BOD Bottle

### No more cleaning BOD bottles

Disposable BOD bottles provide huge labor savings and improved quality in any environmental laboratory. Lightweight, unbreakable, and recyclable disposable bottles offer safety as well as convenience. Bottles are formed from PET resin, the most easily recycled plastic available.



Thomas No.	Mfr. No.	Description	Pack	Case
1230Z17	D1001	Disposable BOD Bottle, 300mL	—	117
1230Z99	D1050	Overcaps for BOD Bottles	50	—
1230Z98	D1025	Unbreakable Acrylic BOD Bottle Stoppers	25	—

## Thermo Scientific™ Nalgene™ Wide-Mouth Natural HDPE Bottles

- HDPE container with leak-proof polypropylene closure
- Available in bulk packs for added economy
- Caps assembled onto containers
- Wide mouth for easy filling and emptying
- Certified to meet EPA Performance Based Specifications



Thomas No.	Mfr. No.	Description	Case
1709C01	N311-0125	Bottle Wide Mouth Natural 125mL	72
1709C02	N311-0250	Bottle Wide Mouth Natural 250mL	72
1709C03	N311-0500	Bottle Wide Mouth Natural 500mL	48
1709C04	N311-1000	Bottle Wide Mouth Natural 1000mL	24
1206F50	N311-1000BPC	Bottle Wide Mouth Natural, Certified 1 L	50

## Looking for bottles?

We have an extensive portfolio of bottles for every need!

Visit [www.thomassci.com](http://www.thomassci.com) and search "bottles".

If you can't find what you're looking for, reach out to your Thomas Scientific rep!



## Thermo Scientific™ HDPE Cylinder Round Bottles

- HDPE container with white LDPE-lined Polypropylene Cap
- Caps assembled onto containers
- Available bulk packed for added economy



Thomas No.	Mfr. No.	Description	Case
1206F63	313-0125	Bottles Cylinder Round Certified 125mL	48
1709B10	313-0250	Bottles Cylinder Round Certified 250mL	24
1709B11	313-0500	Bottles Cylinder Round Certified 500mL	24
1709B12	313-1000	Bottles Cylinder Round Certified 1000mL	12

## Thermo Scientific™ Boston Round Amber Glass Bottles

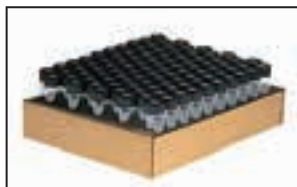
Caps for the 125 and 250mL sizes that are ultrasonically bonded with a 0.125" PTFE-lined, silicone liner. Caps for the 500 and 1000mL sizes are equipped with a friction-fit PTFE liner which can easily be replaced if necessary. Bottles have a polypropylene closure and are suitable for water sampling. Recommended for UV light sensitive samples.



Thomas No.	Mfr. No.	Description	Case
1709A41	149-0125	Bottle Boston Round Amber Narrow Mouth, 125mL, Unprocessed	12
1709A42	149-0250	Bottle Boston Round Amber Narrow Mouth, 250mL, Unprocessed	12
1709A43	149-0500	Bottle Boston Round Amber Narrow Mouth, 500mL, Unprocessed	12
1709A44	149-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Unprocessed	12
1709A72	249-0125	Bottle Boston Round Amber Narrow Mouth, 125mL, Processed	12
1709A73	249-0250	Bottle Boston Round Amber Narrow Mouth, 250mL, Processed	12
1709A74	249-0500	Bottle Boston Round Amber Narrow Mouth, 500mL, Processed	12
1709A75	249-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Processed	12
1709B47	349-0125	Bottle Boston Round Amber Narrow Mouth, 125mL, Certified	12
1709B48	349-0250	Bottle Boston Round Amber Narrow Mouth, 250mL, Certified	12
1709B49	349-0500	Bottle Boston Round Amber Narrow Mouth, 500mL, Certified	12
1709B50	349-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Certified	12

## Thermo Scientific™ Sun SRI Assembled VOA Vial Kits

- Kits are provided with vials, caps and septa
- Pre-assembled



Thomas No.	Mfr. No.	Description	Pack
1227G92	200 911	Vial Kit 40mL VOA Amber Black Cap	100
1227G93	200 912	Vial Kit 40mL VOA Clear Black Cap	100
1227G94	200 913	Vial Kit 40mL VOA Clear White Cap	100

## Thermo Scientific™ HDPE Wide Mouth Packers

- HDPE container with white LDPE-lined Polypropylene Cap
- Caps assembled onto containers
- Wide mouth easy filling and sample retrieval
- Recommended for collecting liquid, semi-liquid and viscous samples
- Available bulk packed for added economy, see [thomassci.com](http://thomassci.com)



Thomas No.	Mfr. No.	Description	Case
1206F61	112-0120	120mL HDPE Packer Unprocessed	48
1206F54	112-0250	250mL HDPE Packer Unprocessed	24
1206F55	112-0500	500mL HDPE Packer Unprocessed	24
1206F62	312-0120	120mL HDPE Packer Certified	48
1709B07	312-0250	250mL HDPE Packer Certified	24
1709B08	312-0500	500mL HDPE Packer Certified	24

## labForce (a Thomas Scientific Brand) HDPE Leakproof Bottles

- Translucent HDPE Resin
- Same dimension with PP linerless cap as Nalgene
- Leak-proof
- Lab grade quality at packaging costs
- 1000mL size bottle available in both wide and narrow mouth



Thomas No.	Description	Case
1162D42	1000mL HDPE Leakproof Wide Mouth Bottle, Unassembled with 63-415 Linerless Cap in Box	50
1162D43	1000mL HDPE Leakproof Wide Mouth Bottle with 63-415 Linerless Cap in Box, Assembled Only	50
1171H27	1000mL HDPE Leakproof Narrow Mouth Bottle, Unassembled w/ 38-430 Linerless Cap in Box	56
1171H28	1000mL HDPE Leakproof Narrow Mouth Bottle, w/ 38-430 Linerless Cap, Assembled Only	56
1171H31	500mL HDPE Leakproof Wide Mouth Bottle, Unassembled w/ 53-415 Linerless Cap in Box	125
1171H32	500mL HDPE Leakproof Wide Mouth Bottle, w/ 53-415 Linerless Cap, Assembled Only	125
1171H33	500mL HDPE Leakproof Wide Mouth Bottle, w/ 53-415 Linerless Cap, Assembled Only, Repack	18
1171H38	250mL HDPE Leakproof Wide Mouth Bottle, Unassembled w/ 43-415 Linerless Cap in Box	250
1171H39	250mL HDPE Leakproof Wide Mouth Bottle, w/ 43-415 Linerless Cap, Assembled Only	250
1171H40	250mL HDPE Leakproof Wide Mouth Bottle, w/ 43-415 Linerless Cap, Assembled Only, Repack	28
1157G99	250mL HDPE Leakproof Wide Mouth Bottle, w/ 43-415 Linerless Cap, Assembled, Sterile	224
1171H45	125mL HDPE Leakproof Wide Mouth Bottle, Unassembled w/ 38-415 Linerless Cap in Box	500
1163W85	125mL HDPE Leakproof Wide Mouth Bottle, w/ 38-415 Linerless Cap, Assembled Only	500
1171H49	125mL HDPE Leakproof Wide Mouth Bottle, w/ 38-415 Linerless Cap, Assembled Only, Repack	40

# Water/Wastewater Analysis

(continued)

J.G. Finneran

## VOA Vials - Solid Top Closures, PTFE Lined

Available in clear or amber borosilicate glass. Assembled with the solid top PTFE-Lined closures. Available in standard, precleaned or precleaned/certified in accordance with recommended E.P.A. Protocol.

**Class 1:** (Standard) Containers are assembled with liner and closure without washing treatment.

**Class 2:** (Precleaned) Containers are processed according to EPA recommended wash procedures. Washed with laboratory grade biodegradable, non-phosphate detergent, rinsed with ASTM Type I De-ionized water, over dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

**Class 3:** (Precleaned and Certified) Containers are processed according to EPA recommended wash procedures.



Thomas No.	Mfr. No.	Description	Pack
1204Z34	9-120	40mL VOA Vial, Clear, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Standard	72
1204Z35	9A-120	40mL VOA Vial, Amber, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Standard	72
1204Z46	9-120-2	40mL VOA Vial, Clear, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned	72
1204Z47	9A-120-2	40mL VOA Vial, Amber, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned	72
1204Z56	9-120-3	40mL VOA Vial, Clear, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned, Certified	72
1204Z57	9A-120-3	40mL VOA Vial, Amber, Assembled w/White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned, Certified	72

## Globe Scientific Specimen Containers

- Capacity 120 mL (4 oz.)
- Tri-lingual patient ID label (1224L6/L66 only)
- Container: Polypropylene (PP)
- Cap: Polyethylene (PE)
- Graduated to 100 mL
- Screw caps attached (1224L65/L66 only)
- Screw caps separate (1224L67)



Thomas No.	Mfr. No.	Description	Case
1224L65	5912	4 oz. Specimen Container, Red Screwcap, Sterile, Individually Wrapped	100
1224L66	5913	4 oz. Specimen Container, Green Screwcap, Sterile, Individually Wrapped	100
1224L67	5915	4 oz. Specimen Container, Red Screwcap, Non-Sterile, Bulk	500

## Thermo Scientific Capitol Vial 2 oz. Flip Top Polypropylene Vials with Chain of Custody Closures

- Ideal for transport and storage of sensitive materials and samples
- 100% FDA compliant food grade polypropylene
- Aseptic, airtight and leak resistant construction with permanent hinge lid
- To open after use, simply cut the chain lock with scissors
- Shoulderless, liner-less containers



Thomas No.	Mfr. No.	Description	Case
1184G22	02CC	Flip Top Vial, Polypropylene, 2 oz., Chain of Custody Seal, Clear	600

Thomas®

## Coliform Water Sampling Vials

Improved sample container for microbiological testing

- Sterile
- Ideal when filtration or the Colilert® method is used
- Rigid vial is easier to fill than a bag- no spills
- Latching mechanism improved over competitive vials
- Will not open or leak in transit- positive thumb lock latches with an audible click
- Vials are sterile by process; locking arrow indicates an unbroken factory seal
- Superior clarity polypropylene allows use with colorimetric 73 methods



Thomas No.	Description	Case
9853Q60	Vial, with Tablet	250
9853Q57	Vial, Sterile	250
1199Z27	Vial, with Tablet and Tie	200

## Benchmark

### Autoclave 16L Research 120V Bioclave

Steam sterilization of research tools and consumables is convenient and affordable with the BioClave™ digital research autoclaves. With a width of under 18 in. (under 14 in. for the BioClave Mini), both models will fit comfortably on even the most crowded bench top.



Thomas No.	Mfr. No.	Description	Each
1227W10	B4000-16	Autoclave 16L Research 120V Bioclave	1
1227W09	B4000-M	Autoclave Mini Research 120V Bioclave	1

## Mettler Toledo

### Excellence XSE Analytical Balances

XSE Analytical Balances offer exceptional weighing performance and quality assurance features as well as excellent ergonomics. They are the perfect workhorse solution for a multitude of workplaces.

The innovative StatusLight takes the worry out of weighing. The clearly visible green light lets you know when it's safe to start – all tests are up-to-date and the balance is level and functioning correctly.

With a wide range of accessories available and multiple connectivity options, XSE balances open up a world of opportunities for different weighing applications.



Thomas No.	Mfr. No.	Description	Each
1201R86	30087716	XSE105DU Analytical Balance	1
1201R87	30087732	XSE205DU Analytical Balance	1
1201R88	30087708	XSE104 Analytical Balance	1
1201R89	30087724	XSE204 Analytical Balance	1



## Adam Equipment Nimbus Analytical and Precision Balances

- Weighing, parts counting, percentage weighing, dynamic/animal weighing, density determination
- Removable draft shield on models with 0.001g readability helps to reduce errors caused by air currents
- Robust metal housing
- Sealed keypad protects against dirt and accidental spills
- USB and RS-232 interfaces both included
- External calibration allows for verification and adjustment with weights
- Date and time for data tracing within Good Laboratory Practices
- Selectable digital filtering helps minimize effects of vibration and disturbances



Thomas No.	Mfr. No.	Description	Each
1191R09	NBL 84e	Nimbus Analytical Balance, 80g x 0.1mg, 3.5" pan, 115V	1
1191R10	NBL 124e	Nimbus Analytical Balance, 120g x 0.1mg, 3.5" pan, 115V	1
1191R11	NBL 164e	Nimbus Analytical Balance, 160g x 0.1mg, 3.5" pan, 115V	1
1191R12	NBL 214e	Nimbus Analytical Balance, 210g x 0.1mg, 3.5" pan, 115V	1
1191R13	NBL 254e	Nimbus Analytical Balance, 250g x 0.1mg, 3.5" pan, 115V	1
1187R52	NBL 124i - 115V	Nimbus Analytical Balance, 120g x 0.1mg, 3.5" pan, 115V	1
1191R14	NBL 223e - 115V	Nimbus Precision Balance, 220g x 1mg, 4.7" pan, 115V	1
1191R15	NBL 423e - 115V	Nimbus Precision Balance, 420g x 1mg, 4.7" pan, 115V	1
1191R19	NBL 2602e - 115V	Nimbus Precision Balance, 2600g x 0.01g, 6.3" pan, 115V	1
1191R20	NBL 3602e - 115V	Nimbus Precision Balance, 3600g x 0.01g, 6.3" pan, 115V	1
1191R22	NBL 4201e - 115V	Nimbus Precision Balance, 4200g x 0.1g, 6.3" pan, 115V	1
1191R23	NBL 6201e - 115V	Nimbus Precision Balance, 6200g x 0.1g, 6.3" pan, 115V	1
1191R24	NBL 8201e - 115V	Nimbus Precision Balance, 8200g x 0.1g, 6.3" pan, 115V	1
1191R25	NBL 12001e - 115V	Nimbus Precision Balance, 12000g x 0.1g, 6.3" pan, 115V	1
1191R27	NBL 22001e - 115V	Nimbus Precision Balance, 22000g x 0.1g, 6.3" pan, 115V	1

## Mettler Toledo ME-T Precision Balances

Designed to meet your essential needs, it offers a reliable, high performance weighing cell and a large, intuitive 4.5" color TFT touch screen as well as three interface connections for easy data handling. It is the perfect choice for day-to-day weighing in any lab or manufacturing environment where value for money has high priority. The ME-T combines essential everyday weighing functions with ease-of-use to deliver solid performance and reliable results day after day.



Thomas No.	Mfr. No.	Description
1184R63	30216546	ME103TE Precision Balance, 120g x 1.0mg
1184R64	30216549	ME203TE Precision Balance, 220g x 1.0mg
1184R65	30216552	ME303TE Precision Balance, 320g x 1.0mg
1184R66	30216557	ME403TE Precision Balance, 420g x 1.0mg
1184R67	30216559	ME1002TE Precision Balance, 1200g x 0.01g
1184R68	30216561	ME2002TE Precision Balance, 2200g x 0.01g
1184R69	30216563	ME3002TE Precision Balance, 3200g x 0.01g
1184R70	30216566	ME4002TE Precision Balance, 4200g x 0.01g
1184R71	30216568	ME4001TE Precision Balance, 4200g x 0.1g

## Mettler Toledo ME-T Analytical Balances

Designed to meet your essential needs, it offers a reliable, high performance weighing cell and a large, intuitive 4.5" color TFT touch screen as well as three interface connections for easy data handling. It is the perfect choice for day-to-day weighing in any lab or manufacturing environment where value for money has high priority. The ME-T combines essential everyday weighing functions with ease-of-use to deliver solid performance and reliable results day after day.



Thomas No.	Mfr. No.	Description
1184R60	30216620	ME54TE Analytical Balance, 52g x 0.1mg
1184R61	30216623	ME104TE Analytical Balance, 120g x 0.1mg
1184R62	30216625	ME204TE Analytical Balance, 220g x 0.1mg

## Polyscience Digital General Purpose Water Baths

- Calibration offset feature
- Large, backlit LCD display shows set and actual temperature
- Three user-configured temperature presets
- Integrated countdown timer
- Set the timer anywhere from minutes to 99 hours
- Clear, hinged gable cover tilts out of the way, lets condensation drain back into the bath and keeps samples in view



Thomas No.	Mfr. No.	Description	Each
1198Q17	WB02A11B	Digital Water Bath, 2L, 120V/60Hz	1
1198Q19	WB05A11B	Digital Water Bath, 5L, 120V/60Hz	1
1184L06	WB02SA11B	Digital Water Bath, 2L Shallow, 120V/60Hz	1
1198Q21	WB10A11B	Digital Water Bath, 10L, 120V/60Hz	1
1198Q23	WB20A11B	Digital Water Bath, 20L, 120V/60Hz	1
1198Q25	WB28A11B	Digital Water Bath, 28L, 120V/60Hz	1

## Boekel Open Source Bio™ (OSB™) Transmitter User Programmable Benchtop Meters

The Boekel Scientific line of Open Source, User Programmable pH, Conductivity, Dissolved Oxygen and Temperature measurement devices work just like conventional probes and transmitters but allow for additional functionality because the equipment is built around an Arduino compatible board. The UNO is an open source circuit board that allows easy user programming and experiment control. An External I/O connector allows the transmitter to connect to pumps or alarms while the USB drive included on the transmitter allows for downloadable data logging. A large color screen and user friendly probe calibrations make this unit easy-to-use.



Thomas No.	Mfr. No.	Description	Each
1188Z70	555003	User Programmable Benchtop Dissolved Oxygen Meter, Open Source, 115V	1

# Water/Wastewater Analysis

(continued)

## Thermo Scientific™ - Barnstead Thermolyne BenchTop Muffle Furnaces, 1100°C

- Digital control push to set
- Ceramic fiber insulation for faster heat-up and reduced energy consumption
- Embedded heating on three sides, top and both sides for improved chamber gradient
- Operating temperature: 100-1100°C

Drop-down door serves as handy shelf for loading and unloading. Door safety switch removes power from the heating elements when the door is opened. Heavy-duty, welded-steel case is finished in two-tone, tan/brown, baked on enamel finish. All models come complete with 3-wire cord and plug.

Thomas No.	Mfr. No.	Description	Each
5310C10	FB1315M	Furnace, 120 V, 8.8 Amps, 1050 Watts	1
5310C13	FB1415M	Furnace, 120 V, 12.5 Amps, 1500 Watts	1



## Labconco FlaskScrubber Glassware Washers

- 36 detachable stainless steel spindles accommodate flasks from 1 to 2000 mL
- Forced air drying through the spindles
- Full two-year warranty

Thomas No.	Mfr. No.	Description	Each
1230E53	4420420	Flaskscrubber, Freestanding, 115V	1
1230E54	4420421	Flaskscrubber, Freestanding, Hi-Heat, 230V	1



## Labconco SteamScrubber Glassware Washers

- Three rotating spray arms (upper, middle and lower)
- Built-in forced air-drying system
- Flexible cycle option
- Full two-year warranty

Thomas No.	Mfr. No.	Description	Each
1230E45	4400420	Steamscrubber, Freestanding, 115V	1
1230E46	4400421	Steamscrubber Freestanding, Hi-Heat, 230V	1



## Labconco Liquid Glassware Washer Detergent

- Low-foaming
- Non-corrosive formula
- Chlorine-free

Specially formulated for Labconco SteamScrubbers® and FlaskScrubbers®. Detergent removes a wide range of laboratory contaminants and rinses completely. Will not degrade stainless steel, glass or plastic and it can be used in hot or cold water. Environmentally-friendly formula is phosphate-free and will not carry into sewer systems.

Thomas No.	Mfr. No.	Description	Each
2902N57	4522000	Labsolutions Detergent, Liquid, 1 Gallon	1



## Benchmark Hotplates, Stirrers and Hotplate Stirrers

- Large work surface, 7.5 x 7.5 in.
- Space saving design, 8 x 9 in. footprint
- Chemical resistant white ceramic top plate
- Safety LEDs indicate when heating or stirring
- Quick and easy adjustment of heating/mixing



Thomas No.	Mfr. No.	Description	Each
1227U97	H4000-HS	Hotplate / Stirrer, 7.5" X 7.5", 120V	1
1227U98	H4000-H	Hotplate, 7.5" X 7.5", 120V	1
1227U99	H4000-S	Magnetic Stirrer, 7.5" X 7.5", 120V	1

## Stuart Hotplate with Stirrer

### Choice of top plate:

- Robust coated aluminium
- Chemically resistant ceramic
- Flashing "Hot" warning light
- Accurate temperature control with LED indicator scale
- Compact space saving design



Thomas No.	Mfr. No.	Description	Each
1204L57	0480564	Undergrad Aluminum Hotplate Stirrer 120V	1
1204L58	0480556	Undergrad Ceramic Hotplate Stirrer 120V	1

## Boekel Economy Analog and Digital Incubators

### Analog:

- Manufactured in the US from 22 gauge steel
- Powder-coated exterior for scratch and stain resistance
- Easy-to-clean aluminum interior
- Expanded temperature range of ambient +10 to 90°C
- Blower fan improves the heating and stability of the desired temperature
- See-thru door

### Digital:

- Digital temperature display with a 0.1°C resolution; maximum temp. 60°C
- Rugged metal door and magnetic door latch
- Excellent temperature stability and uniformity
- Smaller than similar capacity incubators, making it ideal for limited spaces
- Additional shelves available



Thomas No.	Mfr. No.	Description	Each
0241D44	132000	Economy Analog Incubator, 0.8 cu.ft., 115V	1
6128T30	133000	Economy Digital Incubator, 120V	1

**m-FC Broth with Rosolic Acid, see page 53**



## Benchmark MyTemp™ Mini Incubator

With digital temperature control, the MyTemp™ incubators provide convenient “set and walk away” operation, eliminating the need for external thermometers and repetitive “fine tuning” of an analog control knob. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down, -HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.



Thomas No.	Mfr. No.	Description	Each
1207N78	H2200-H	MyTemp™ Mini Incubator, heat only, 115V	1
1207N79	H2200-HC	MyTemp™ Mini Incubator heat & cool, 115V	1

## Thermo Scientific™ Heratherm™ Compact Microbiological Incubators

- Minimal benchtop space for space restricted lab areas
- Temperatures at or below ambient: 17° to 40°C
- High temperature accuracy
- Easy-to-use interface
- Internal light and window in door facilitates sample observation
- Temperature uniformity of  $\pm 1.2^{\circ}\text{C}$  (measured at 37°C)
- Temperature stability of  $\pm 0.2^{\circ}\text{C}$  (measured at 37°C)



Thomas No.	Mfr. No.	Description	Each
1218W89	50125590	IMC18 HERATHERM Compact Incubator; Mechanical Convection; 0.65 cu.ft. (18 L); 17 to 40 C; 120-230VAC; 50/60 Hz	1

See [thomasci.com](http://thomasci.com) for Heratherm General Protocol Incubators

## Thermo Scientific™ Precision Refrigerated Incubators

These incubators feature microprocessor controls and forced air circulation, the Precision refrigerated incubators are ideal for applications that require temperatures from -10°C to 50/60°C (5°F to 140°F) with excellent temperature control and stability.

Easy-to-clean, corrosion-resistant construction. Compressor relay conserves energy. 2A outlet easily supports apparatus inside the unit.



Thomas No.	Mfr. No.	Description	Each
1188H19	PR505755R	Incubator Refrigerated, Model 815, 20 cu ft, 120V-60Hz, -10°C to +50°C, energy efficient design - with cooling switch	1
1188H20	PR505750R	Incubator Refrigerated, Model 815, 20 cu ft, 230V-50Hz, -10°C to +50°C, energy efficient design - with cooling switch	1
1226S52	PR205740R	Incubator Refrigerated, 6.1 cu. ft., 230V	1
1226S53	PR205745R	Incubator Refrigerated, 6.1 cu. ft., 115V	1

## Thermo Scientific™ Orion™ DUAL STAR pH / ISE Meters

Combines the best of the Orion 720A+ and 920A+ meters with the advantages of the Orion Star Plus meters.



Thomas No.	Mfr. No.	Description	Each
1226F28	2115101	DUAL STAR pH/ISE Meter, 8102BNUWP ROSS Ultra Electrode, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Mini-USB to USB CableE, Universal Power Adapter & User Guide	1
1226F27	2115000	DUAL STAR pH/ISE Meter, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Universal Power Adapter & User Guide	1
1226F26	2115001	DUAL STAR pH/ISE Meter, 8102BNUWP ROSS Ultra Electrode, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Mini-USB to USB Cable, pH 4,7,10 Buffer and Storage Solutions, Universal Power Adapter & User Guide	1

## Thermo Scientific™ Orion™ Star™ A111 pH Benchtop Meter

- Large, informative screen clearly shows the main information, including pH or mV reading, temperature, meter mode, calibration information and power source
- Don't miss a reading — AUTO-READ\* locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to three point pH calibration
- Automatic recognition of USA/NIST and DIN buffers
- Easily recall calibration slope data for procedure checks
- Non-volatile memory holds up to 50 data points



Thomas No.	Mfr. No.	Description	Each
1218X22	STARA1110	Star A111 pH BT Meter with Electrode Stand	1
1218X23	STARA1115	Star A111 pH BT Meter with Electrode Stand; 9157BNMD Epoxy Refillable pH/ATC Triode; 916099 pH Buffer 60mL Kit (pH 4, 7, 10 Buffer, Storage and Cleaning Solutions)	1

## Thermo Scientific™ Orion™ Star™ A113 Dissolved Oxygen Benchtop Meter

- Large, informative screen clearly shows the main information, including DO reading in mg/L or % saturation, temperature, meter mode and power source
- Automatic temperature, manual salinity input and manual barometric pressure compensation for an accurate result
- Don't miss a reading—AUTOREAD locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Two calibration options to meet your requirements: water-saturated air method or manual input using a Winkler titration



Thomas No.	Mfr. No.	Description	Each
1218X30	STARA1130	Star A113 DO BT Meter with Electrode Stand	1
1218X31	STARA1135	Star A113 DO BT Meter with Electrode Stand; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 080513 Probe Maintenance Kit	1

# Water/Wastewater Analysis

(continued)

## Thermo Scientific™ Orion™ Star™ A215 pH/Conductivity Benchtop Multiparameter Meter

- Up to five point pH calibration with automatic recognition for USA/NIST and DIN buffers and calibration editing to fix errors without a complete recalibration
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For accurate conductivity results, selectable reading reference temperatures of 5°, 10°, 15°, 20° or 25°C with linear, non-linear, nLFu or EP curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software



Thomas No.	Mfr. No.	Description	Each
1218X53	STARA2155	Star A215 pH/Conductivity BT Meter with Electrode Stand; 8157BNUMD Thermo Scientific™ ROSS™ Epoxy Refillable pH/ATC Triode; 013005MD DuraProbe Epoxy 4-Cell (K=0.475) Conductivity Cell with 1.5 Meter Cable; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 011007 Conductivity 1413uS/cm Standard, 5x60mL	1
1218Y22	STARA2150	Star A215 pH/Conductivity BT Meter with Electrode Stand	1

## Thermo Scientific™ Orion™ Star™ A214 pH/ISE Benchtop Meter

- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- Whether you use ISE infrequently or have multiple samples every day – up to 5 point ISE calibration with advanced features such as non-linear selectable auto-blank and low-concentration range stability
- Fix errors without a complete recalibration with the calibration editing function
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software



Thomas No.	Mfr. No.	Description	Each
1218X49	STARA2145	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 096019 Stirrer Probe; 810199 Thermo Scientific™ ROSS™ pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle)	1
1218X48	STARA2140	Star A214 pH/ISE BT Meter with Electrode Stand	1
1218X50	STARA2146	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 9512HPBNWP High-Performance Ammonia Electrode; 096019 Stirrer Probe; 951007 Ammonia 1000ppm Standard, 475mL; 951210 Low-level Ammonia ISA, 475mL; 951213 Ammonia Electrode Storage Solution, 475mL	1
1218X51	STARA2147	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 9609BNWP Fluoride Electrode; 096019 Stirrer Probe; 040906 Fluoride 1ppm with TISAB II Standard, 475mL; 040907 Fluoride 2ppm with TISAB II Standard, 475mL; 040908 Fluoride 10ppm with TISAB II Standard, 475mL; 940909 TISAB II, 1 Gallon	1
1218X52	STARA2148	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 8611BNWP Sodium Electrode with Sodium Standards, Reagents and Solutions; 096019 Stirrer Probe	1

## Thermo Scientific™ Orion™ VERSA STAR™ pH/ISE/ Conductivity/RDO/DO Benchtop Meter

This versatile meter has a large, color graphic LCD display. The informative display shows readings, connections, time, date, sample ID, user ID and calibration information.



Thomas No.	Mfr. No.	Description	Each
1218X85	VSTAR90	VERSA STAR BT Meter with Electrode Stand; VSTAR-ISE pH/ISE Module; VSTAR-CND Conductivity Module; VSTAR-RD RDO/DO Module	1
1218X86	VSTAR92	VERSA STAR BT Meter with Electrode Stand; VSTAR-ISE pH/ISE Module; VSTAR-CND Conductivity Module; VSTAR-RD RDO/DO Module; 8157BNUMD Thermo Scientific™ ROSS™ Epoxy Refillable pH/ATC Triode; 013005MD DuraProbe Epoxy 4-Cell (K=0.475) Conductivity Cell with 1.5 Meter Cable; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 096019 Stirrer Probe; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 011007 Conductivity 1413uS/cm Standard	1

## Thermo Scientific™ Orion™ Star A216 pH/Dissolved Oxygen Benchtop Multiparameter Meter

Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows individual pH/mV/RmV result, dissolved oxygen in percent saturation or concentration results with temperature, or all results at once. Additional helpful information includes electrode status, time, date, sample ID, user ID and calibration. For advanced users, features such as stability and averaging choices provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X54	STARA2160	Star A216 pH/RDO/DO BT Meter with Electrode Stand	1
1218X55	STARA2165	Star A216 pH/RDO/DO BT Meter with Electrode Stand; 8157BNUMD ROSS Epoxy Refillable pH/ATC Triode; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 080513 Probe Maintenance Kit; 970802 BOD Funnel and Stirrer; 080360 BOD Adapter	1

## Thermo Scientific™ Orion™ Star™ A213 Dissolved Oxygen Benchtop Meter

An ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows dissolved oxygen in percent saturation or concentration and temperature along with time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging options and flash expansion through the USB provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X44	STARA2135	Star A213 RDO™/DO BT Meter with Electrode Stand; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 080513 Probe Maintenance Kit; 970802 BOD Funnel and Stirrer; 080360 BOD Adapter	1
1218X43	STARA2130	Star A213 RDO/DO BT Meter with Electrode Stand	1

## Thermo Scientific™ Orion™ Star™ A329 pH/ISE/Conductivity/ Dissolved Oxygen Portable Multiparameter Meter

This meter is the top choice for advanced multiparameter measurements on location. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display can show each parameter with temperature individually or all three with temperature on one screen.



Thomas No.	Mfr. No.	Description	Each
1218X69	STARA3295	Star A329 pH/ISE/Cond/RDO/DO Hand-Held Meter; 8107UWMD Thermo Scientific™ Gel-filled Epoxy pH/ATC Triode (3m Cable); 013010MD Epoxy 4-Cell (K=0.475) Conductivity Probe (3m Cable); 087010MD RDO Optical DO Probe (3m Cable); 910410-WA pH 4 Buffer Pouches; 910710 pH 7 Buffer Pouches; 911010 pH 10 Buffer Pouches; 810001 ROSS Electrode Storage Solution; 01100710 Conductivity 1413uS Standard Pouches; 911110 Rinse Solution Pouches; STARA-CS Star A Hand-Held Meter Hard Field Case & STARA-AR Star A Hand-Held Meter Armor	1
1218X68	STARA3290	Star A329 pH/ISE/Cond/RDO/DO Hand-Held Meter	1

## Thermo Scientific™ Orion™ Star™ A212 Conductivity Benchtop Meter

This meter is the ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows conductivity/ TDS/salinity/resistivity and temperature along with time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging choices provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X39	STARA2125	Star A212 Conductivity BT Meter with Electrode Stand; 013005MD Epoxy 4-Cell (K=0.475) Conductivity Probe with 1.5 Meter Cable; 011007 Conductivity 1413uS/cm Standard, 5 x 60mL	1
1218X38	STARA2120	Star A212 Conductivity BT Meter with Electrode Stand	1

## Thermo Scientific™ Orion™ Star™ A121 pH Portable Meter

Portable meters combine simplicity with accuracy. A large LCD displays pH or mV readings along with temperature. Icons provide quick updates on battery life, electrode status and calibration information. Simple button layout and onscreen messages help with calibration and setup menu choices.



Thomas No.	Mfr. No.	Description	Each
1218X25	STARA1215	Star A121 pH Hand-Held Meter with Electrode Stand; 9107BNMD Gel-filled Epoxy pH/ATC Triode with 1.5 Meter Cable; 916099 pH Buffer 60mL Kit (pH 4, 7, 10 Buffer, Storage and Cleaning Solutions); 911110 Rinse Solution Pouches; STARA-CS Star A Hand-Held Meter Hard Field Case; STARA-AR Star A Hand-Held Meter Armor	1
1218X24	STARA1210	Star A121 pH Hand-Held Meter	1

## Oakton pH 700 Benchtop Meter

- Compact footprint is over 40% smaller than other benchtop meters
- Large display permits easier readout viewing
- Datalogging allows you to store and recall up to 100 data sets



The easy-to-use, microprocessor-based pH 700 benchtop meter measures pH, mV, relative mV, and temperature. The large, dual-display LCD provides excellent visibility—even from a distance. Automatic temperature compensation (ATC) maintains reading accuracy even with fluctuating temperatures.

Thomas No.	Mfr. No.	Description	Each
1223L12	WD-35419-10	pH 700 Benchtop Meter, pH probe, Stand	1

## Oakton Waterproof pH/CON 450 Meter

Select meter with combination pH/CON probe or separate pH and conductivity probes

- Intuitive, user-friendly icons—electrode status displays pH slope
- Grip-Clip electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets
- Extended battery life or optional universal power adapter
- Built-in stand with wall mount allows for easy benchtop measurement or storage



Thomas No.	Mfr. No.	Description	Each
1196L42	WD-35630-10	pH/CON 450 Meter w/Combination probe	1
1196L43	WD-35630-11	pH/CON 450 Meter w/Combination probe w/NIST certification	1
1196L44	WD-35630-12	pH/CON 450 Meter w/Separate probes	1
1196L45	WD-35630-13	pH/CON 450 Meter w/Separate probes w/NIST certification	1
1196L46	WD-35630-80	pH/CON 450 Meter w/Combination probe kit	1
1196L47	WD-35630-81	pH/CON 450 Meter w/Combination probe kit w/NIST certification	1
1196L48	WD-35630-90	pH/CON 450 Meter w/Separate probes kit	1
1196L49	WD-35630-91	pH/CON 450 Meter w/Separate probes kit w/NIST certification	1
1196L50	WD-35630-51	pH/Con Probe	1
1196L51	WD-35630-53	Data cable for USB connectivity; 2700 and 450 Meters	1
1196L52	WD-35641-51	pH electrode, double-junction, epoxy body, sealed, polygel	1

## Thomas® pH Buffer Solutions

Traceable to NIST standards and available in a variety of packaging selections. Provides a tolerance of  $\pm 0.02$  pH at 25°C and the bottle label provides temperature correction data from 0° to 50°C. All Thomas buffers offer improved record keeping and documentation with two-year shelf life (unopened), manufacturing lot codes, expiration out-dates and fill-in-the-blank sections for date received and date opened. The pint and quart buffer bottles come with an inner cone cap to prevent leaking. 19 liter sizes are supplied in a cube shaped, cardboard encased polyethylene container with a spout.



Thomas No.	Description
1182Z30	Buffer Solution Set, pH 4, 7, 10 $\pm 0.02$ , 475mL x 3

For pint, quart and gallon sizes, please visit [thomasci.com](http://thomasci.com),  
Keyword: 1182Z13



# Water/Wastewater Analysis

(continued)

## Oakton Benchtop pH 2700 pH/mV/Temperature Meter and Accessories

- Large display with bright backlight
- Dynamic reading stability indication indicates when your measurement is stable
- Up to 500-point memory with date-time stamp for GLP
- Password protection for both setup and calibration for security
- Calibration-due alarm let you know when to recalibrate
- Audible alarms alert you when reading fall out of range
- Output data to either printer or PC



Thomas No.	Mfr. No.	Description	Each
1221Z29	WD-35420-20	pH 2700 Benchtop Meter with pH electrode	1

## Oakton Waterproof pH 450 Meter

**Backlit, rugged waterproof meter is ideal for any environment**

- Intuitive, user-friendly icons—electrode status displays pH slope
- Grip-Clip™ electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets
- Extended battery life or optional universal power adapter
- Built-in stand with wall mount option allows for easy benchtop measurement or storage



Thomas No.	Mfr. No.	Description	Each
1196L32	WD-35618-33	pH 450 Meter and Probe with NIST certificate	1
1196L33	WD-35618-90	pH 450 Meter Kit	1
1196L34	WD-35618-91	pH 450 Meter Kit with NIST certificate	1
1196L35	WD-35618-30	pH 450 Meter and Probe	1
1196L37	WD-35420-72	100/240VAC 9V 6W Adapter	1

## YSI Pro Plus Multiparameter Instrument

**The ultimate handheld sampling instrument**

Do your job with confidence even in the harshest field conditions. The drop-tested Pro Plus was designed tough with military-spec connectors, a two-year warranty on all cables, weighted sensor guards, and a rubber over-molded case with three-year warranty. Its interchangeable sensors and extra-durable cables nearly eliminate down time. And its low overall cost of ownership means you're making a worthwhile investment for years to come.



Thomas No.	Mfr. No.	Description	Each
1234T56	6050000	Pro Plus Multiparameter Instrument	1

*For Electrodes and Probes, see pages 37-38  
Buffers and Solutions, starting on page 55*

## YSI ProODO™ Handheld Optical Dissolved Oxygen Meter

- Military Spec (MS) connectors
- Field tested cables
- Rugged, weighted probe guard
- 2,000 data-set memory
- Expanded DO range of 0-500% (0-50 mg/L)
- Fits standard 300mL BOD bottle in the lab
- Backlit display and keypad
- Detailed GLP data
- 100 folders and site lists for logging data with user defined fields
- Cable options from 1- to 100-meters including a cable management kit on 4-meter and longer cables



Thomas No.	Mfr. No.	Description	Each
1228X82	626281	ProODO™ Optical DO Meter	1
1228X84	626250-1	Cable 1-M Do / Temp	1
1228X85	626250-4	Cable 4-M Do / Temp	1
1228X86	626250-10	Cable 10-M Do / Temp	1
1228X94	605790-4	Cable 4-M Dual ISE / Do / Temp	1
1228X95	605790-10	Cable 10-M Dual ISE / Do / Temp	1
1221X61	626400	Optical BOD Probe	1

## YSI Pro20 Dissolved Oxygen

**Handheld dissolved oxygen instrument for the lab or field!**

Rugged and reliable, the Pro20 provides everything you need in a handheld dissolved oxygen instrument. User-replaceable sensors and cables, 50 data set memory, and convenient One Touch Cal feature makes it user friendly. Mil-spec (military spec) connectors, IP-67 waterproof and rubber over molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.



Thomas No.	Mfr. No.	Description	Each
1234T22	6050020	Pro20 Dissolved Oxygen, Handheld	1
1234T18	60520-4	Do / Temp 4-Meter Cable Assembly	1
1234T19	60520-10	Do / Temp 10-Meter Cable Assembly	1
1221X58	605780	Polarographic Self-Stirring BOD Probe	1
1234T24	605203	Polarographic DO Sensor	1

## YSI Pro2030 Dissolved Oxygen/Conductivity

**Handheld DO, Conductivity, Salinity, TDS, Temperature**

Rugged and reliable, the Pro2030 provides everything you need in a handheld dissolved oxygen instrument with conductivity. Automatically compensates DO readings for changes in salinity. User-replaceable DO sensors and cables, 50 data set memory, and simple DO calibration makes the Pro2030 user friendly. Rugged design and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.



Thomas No.	Mfr. No.	Description	Each
1234T46	6052030-4	Do / Cond / Temp 4-Meter Cable Assembly	1



**Lab Companion**

For a complete list of Lab Companion Incubators and Shakers, please visit [thomassci.com](http://thomassci.com) and search the following:

**Incubators:**  
Keyword: 1187L84

**Shakers:**  
Keyword: 1186Q84

**Forced Convection Low Temperature Incubators**

Superb low temperature incubation performance using a noiseless HBP compressor cooling system which reduces water evaporation within the chambers.

- Temperature control: 0°C to 60°C
- Microprocessor PID control
- High temperature limit setting and open door alarm
- Simple calibration and auto-tuning functions
- Digital timer with Delayed ON/OFF function: 1 min to 99 hr 59 min



**Open-Air Shakers**

Powerful driving system with a durable body structure increases shaking capacity. Suitable for larger or heavier workloads requiring accurate and reproducible results.

- Microprocessor PID control - intelligent speed controller enables reproducible results
- Shaking speed calibration enables matching the displayed rpm to the reference point
- Various speed ranges up to max. 500 rpm
- Timer range: 1 min. to 999 hr 59 min
- Orbit diameter: 18.7mm (Standard) or 25.4mm for OS-4000 / 25.4mm for OS-7100 / 50.8mm for OS-7200

## Lab Companion Benchtop Incubated Shakers

Transparent lid offers great visibility and gas spring supports ensure hand-down handling of the samples by allowing immediate and easy access to your samples.

### General Control

- Intuitive touch screen LCD controller with easy icons and logical menus
- Automatic run is available with non-volatile set point memory after power interruption

### Shaking Control

- Speed range: 10 to 500 rpm
- Orbit diameter: 19mm

### Temperature Control

- Temperature range: Amb.+5°C to 80 °C (for IST-3075 / 4075) & Amb.-15°C (Min. +15) to 80°C (for IST-3075R / 4075R)
- Microprocessor PID control and auto-tuning

### Constructional Features

- Wide speed range even with heavy workload. Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion
- Air-tight silicone door seal to provide excellent temperature uniformity

Thomas No.	Mfr. No.	Description	Each
1187L96	AAH23465U	IST-3075, Benchtop, 53L (1.9 cu ft), 120V/50/60Hz	1
1199R88	AAH23565U	IST-3075R, Benchtop, 53L (1.9 cu ft), 120V/60Hz	1
1187L98	AAH23665U	IST-4075, Benchtop, 83L (2.9 cu ft), 120V/50/60Hz	1
1187L99	AAH23765U	IST-4075R, Benchtop, 83L (2.9 cu ft), 120V/60Hz	1



## Lab Companion Advanced Orbital Shakers

**Innovative triple-cam shaking mechanism with offering reliable performance across a wide speed range.**

Specially designed to carry out heavy-duty and trouble-free operations continuously.

### Safety Features

- Worry-free operation - Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock
- Automatic run is available with non-volatile set point memory after power interruption, indicated in control display

### Operational Features

- Microprocessor PID control maintaining constant speed
- Wide speed range: 30 ~ 500 rpm

### Constructional Features

- Wide speed range even with heavy workload
- Repetitive task can be easily performed as the platform stops where it starts. Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process

Thomas No.	Mfr. No.	Description	Each
1186Q87	AZF848519	SKC-6075 Shaker, Orbital, 0.75" Stroke, 120V 50/60Hz	1
1186Q88	AAH30116U	SKC-6100 Shaker, Orbital, 1" Stroke, 120V 50/60Hz	1
1185R53	AAH30115K	SKC-6100 Shaker, Orbital, 1" Stroke, 230V 50/60Hz	1
1186Q89	AAH30126U	SKC-6200 Shaker, Orbital, 2" Stroke, 120V 50/60Hz	1
1186Q90	AAH30206U	SKC-7075 Shaker, Orbital, 0.75" Stroke, 120V 50/60Hz	1
1186Q91	AAH30216U	SKC-7100 Shaker, Orbital, 1" Stroke, 120V 50/60Hz	1
1186Q92	AAH30226U	SKC-7200 Shaker, Orbital, 2" Stroke, 120V 50/60Hz	1



## Lab Companion General Model Incubators

**Versatile air-jacketed natural convection incubators**

Specially designed for uniform temperature distribution and minimal sample contamination caused by external air intrusion.

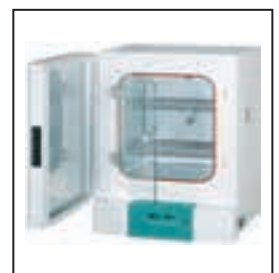
### Operational Features

- Temperature control: +5°C above ambient to 70°C
- Microprocessor PID control
- Simple calibration and auto-tuning functions
- Digital timer with Delayed ON/OFF function: 1 min to 99 hr 59 min
- High temperature limit setting and open door alarm
- Convenient preset function for 3 most commonly used temperature settings
- RS-232 interface

### Constructional Features

- Fully insulated dual-wall door with magnetic rubber gasket
- Vibration-free design ideal for yeast cultivation
- Compact and lightweight construction with completely sealed gasket
- Convenient sample monitoring without affecting chamber temperature via the inner tempered-glass door
- Built-in cable port to use other instruments (dia 38mm/1.5C, provided silicon or rubber cap)

Thomas No.	Mfr. No.	Description	Each
1187L81	AAH21166U	IB-05G Incubator, 60L (2.1 cu ft), 120V/50/60Hz	1
1187L82	AAH21176U	IB-15G Incubator, 102L (3.6 cu ft), 120V/50/60Hz	1
1185R53	AAH21186U	IB-25G Incubator, 151L (5.3 cu ft), 120V/50/60Hz	1



# Water/Wastewater Analysis

(continued)

## Adam Equipment

### PMB Moisture Analyzers

Fast response time and easy-to-use functionality make PMB the ideal moisture analyzer for wastewater testing.

The automatic test setting function lets you quickly run multiple tests without additional user input and the built-in memories lets you store that data for future reference. The PMB offers smart features that have been developed to give you the ultimate performance for moisture analysis.



Thomas No.	Mfr. No.	Description	Each
1224C81	PMB 53	PMB Moisture Analyzer, 50g x 0.001g/0.01%, 110V	1
1224C82	PMB 202	PMB Moisture Analyzer, 200g x 0.01g/0.05%, 110V	1

## Thermo Scientific™

### Heratherm™ General Protocol Gravity Convection Ovens

Gravity convection units are designed to protect delicate samples while offering temperature uniformity of  $\pm 4^{\circ}\text{C}$  or better, and temperature stability of at least  $\pm 0.4^{\circ}\text{C}$  at  $150^{\circ}\text{C}$ .

- Three sizes (60, 100 or 180L)
- Operating temperatures from  $50^{\circ}$  to  $250^{\circ}\text{C}$
- Automatic over-temperature alarm system to protect samples
- Low overall energy consumption
- Built in timer
- Excellent footprint/volume ratio
- Corrosion-resistant galvanized steel chambers with rounded corners for easy cleaning
- Large, easy-to-read vacuum fluorescent display
- Easy-to-use, microprocessor-controlled touch button operation
- Easy-to-access—doors can be opened to over  $180^{\circ}\text{C}$
- All ovens come with 2 shelves



Thomas No.	Mfr. No.	Description	Each
1218W49	51028112	OGS60; HERATHERM General Protocol Oven; Gravity Convection; 2.3 cu.ft. (65 L); 50 to $250^{\circ}\text{C}$ ; 120VAC; 60Hz	1
1218W45	51028872	OGS100; HERATHERM General Protocol Oven; Gravity Convection; 3.75 cu.ft. (105 L); 50 to $250^{\circ}\text{C}$ ; 208-240VAC; 60Hz	1
1218W46	51028874	OGS180; HERATHERM General Protocol Oven; Gravity Convection; 6.2 cu.ft. (176 L); 50 to $250^{\circ}\text{C}$ ; 120V, 60 Hz	1

## Thermo Scientific™

### Cimarec+™ Stirring Hot Plates Series

Thermo Scientific™ Cimarec+™ series digital stirring hotplates offer precise stirring control, exceptional safety and temperature performance for your routine protocols. The Cimarec+ Series are available in three sizes, providing flexibility from microscale chemistries to production operations.



Thomas No.	Mfr. No.	Description	Each
1187P02	SP88854100	Cimarec+ Ceramic Top Hotplate Stirrer, 4 x 4", 100-120V, 50/60Hz	1
1187P04	SP88857100	Cimarec+ Ceramic Top Hotplate Stirrer, 7 x 7", 100-120V, 50/60Hz	1
1187P10	SP88850100	Cimarec+ Ceramic Top Hotplate Stirrer, 10 x 10", 100-120V, 50/60Hz	1

## Boekel

### Gravity Convection Ovens

Reaches  $200^{\circ}\text{C}$  in approximately 30 minutes

- Range is  $100^{\circ}$  to  $225^{\circ}\text{C}$  with uniformity  $\pm 1^{\circ}\text{C}$
- Temperature is regulated by a bi-metallic thermostat
- Pilot light indicates when elements are on
- Ventilating holes are provided below the heater permitting ambient air to enter at bottom; air passes through heater and exhausts from two vents at the top
- Chamber temperature is indicated by thermometer passed through thermometer holder at top of oven
- Double-walled, aluminum, enameled steel exterior and glass wool insulation; mounted on rubber feet
- Door has continuous hinge, latch and spring catch
- Two removable, nickel-plated wire shelves and thermometer are provided



Thomas No.	Mfr. No.	Description	Each
7187C10	107800	Drying Oven, 0.6 cu ft., 115V, 660W	1
7187C20	107801	Drying Oven, 2.7 cu ft., 115V, 1500W	1
7187C17	107905	Drying Oven, 1.6 cu ft., 115V, 660W	1

## Thermo Scientific™

### Precision Compact Ovens

Featuring a compact design, the Precision basic ovens are ideal for your drying and baking applications with a temperature range of ambient  $+5^{\circ}\text{C}$  to  $210^{\circ}\text{C}$ .

#### Efficient, Space-Saving Design

Compact footprint conserves valuable benchtop space and ovens are easily stackable for further efficiency.



#### Choice of Mechanical or Gravity-Flow Models

Mechanical models provide uniform heating, precise temperature control and fast drying. Models also feature hydraulic thermostat, LED display and a stainless steel chamber. Gravity-flow models offer gentle drying with heat-generated convection that moves the air vertically through the oven chamber to heat samples. Gravity models feature bi-metallic thermostat and aluminum chamber.

#### Over-Temperature Protection

Pre-set high temperature safety thermostat ensures over-temperature protection. Pilot light visually indicated oven operation status.

#### Durable Construction

Features a double wall interior with 1" (2/5 cm) silica-based insulation and powder-coated, cold-rolled steel exterior.

#### Two Sizes

0.7 Cu. Ft. (19.8L) includes one fixed and two adjustable shelves\*

1.7 Cu. Ft. (161.4L) includes one fixed and two adjustable shelves\*

Thomas No.	Mfr. No.	Description	Each
1226S04	PR305225G	Oven Gravity Compact 1.7 Cu Ft 120V	1
1226S05	PR305220G	Oven Gravity Compact 1.7 Cu Ft 240V	1
1226S06	PR305225M	Oven Mechanical Compact 1.7 Cu Ft 120V, 60Hz	1
1226S07	PR305220M	Oven Mechanical Compact 1.7 Cu Ft 240V, 50Hz	1

*For additional Equipment and Instrumentation, see pages 33-40*



## Thermo Scientific™

### GP Series Laboratory Refrigerators



1218W09



1218W36



1218W43

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of  $\pm 3^\circ\text{C}$
- High-density, fluorine free insulation
- Automatic defrost
- Keyed on/off switch
- Optional chart recorder
- High/Low Temperature, Visual/Audio alarms
- Choice of solid or glass lockable doors (refrigerators only)
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock
- Painted, high-quality steel exterior
- Choice of painted or stainless steel interior (refrigerators only)
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- 1 in. rear access port
- Certifications: UL listed

Thomas No.	Mfr. No.	Description
1218W09	MR12PA-GAEE-TS	12 cf lab refrigerator 120/60, Glass doors
1218W10	MR12PA-GARE-TS	12 cf lab refrigerator 120/60 w/chart recorder, Glass doors
1218W11	MR25PA-GAEE-TS	25 cf lab refrigerator 120/60, Glass doors
1218W12	MR25PA-GARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, Glass doors
1218W13	MR25PA-SAEE-TS	25 cf lab refrigerator 120/60, Stainless steel doors
1218W14	MR25PA-SARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, Stainless steel doors
1218W15	MR25SS-GAEE-TS	25 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W16	MR25SS-GARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W17	MR25SS-SAEE-TS	25 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W18	MR25SS-SARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W19	MR30PA-GAEE-TS	30 cf lab refrigerator 120/60, glass doors
1218W20	MR30PA-GARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, glass doors

Thomas No.	Mfr. No.	Description
1218W21	MR30PA-SAEE-TS	30 cf lab refrigerator 120/60, stainless steel doors
1218W22	MR30PA-SARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel doors
1218W23	MR30SS-GAEE-TS	30 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W24	MR30SS-GARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W25	MR30SS-SAEE-TS	30 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W26	MR30SS-SARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W27	MR38PA-GAEE-TS	38 cf lab refrigerator 120/60, glass doors
1218W28	MR38PA-GARE-TS	38 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W29	MR45PA-GAEE-TS	45 cf lab refrigerator 120/60, glass doors
1218W30	MR45PA-GARE-TS	45 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W31	MR45SS-GAEE-TS	45 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W32	MR45SS-GARE-TS	45 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W33	MR49PA-GAEE-TS	49 cf lab refrigerator 120/60, glass doors
1218W34	MR49PA-GARE-TS	49 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W35	MR49PA-SAEE-TS	49 cf lab refrigerator 120/60, stainless steel doors
1218W36	MR49PA-SARE-TS	49cf lab refrigerator 120/60 w/chart recorder, stainless steel doors
1218W37	MR49SS-GAEE-TS	49 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W38	MR49SS-GARE-TS	49cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W39	MR49SS-SAEE-TS	49 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W40	MR49SS-SARE-TS	49 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W41	MR72PA-GAEE-TS	72 cf lab refrigerator 120/60, glass doors
1218W42	MR72PA-GARE-TS	72 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W43	MR72SS-GAEE-TS	72 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W44	MR72SS-GARE-TS	72 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors

## Jenway Genova Spectrophotometers

- 3-in-1 spectrophotometer
- Ideal for DNA, RNA and Protein measurements
- Only 0.5µl sample volume required
- Easy and quick to clean
- Detects DNA concentrations as low as 2ng/µl
- Method and result saving to USB memory stick
- 3 year warranty including Xenon lamp



Thomas No.	Mfr. No.	Description	Each
1207T95	83070000	Genova Plus Life Sci Spectrophotometer	1

# Water/Wastewater Analysis

(continued)

## Thermo Scientific™ Orion™ AquaMate™ 8000 and 7000 UV-Vis Spectrophotometers

### AquaMate 8000 UV-Vis Spectrophotometer

The Thermo Scientific Orion AquaMate 8000 UV-Vis Spectrophotometer offers the accuracy, dependability and ease-of-use your lab requires. The compact design, intuitive operation and innovative features of this AquaMate spectrophotometer will ensure your lab will have the ideal instrument for water analysis and beyond. Choose the AquaMate 8000 UV-Vis with full 190 to 1100nm wavelengths for the most extensive measurement options.



Thomas No.	Mfr. No.	Description	Each
1205V48	AQ8000	Orion AquaMate 8000 UV-VIS Spectrophotometer, includes methods on USB memory stick, 6-position vial holder turret, 3-position vial holder turret, 1-position vial holder turret, user documentation, dust cover, USB cable, 110V and 220V power cords	1
1205V49	AQ7000	Orion AquaMate 7000 VIS Spectrophotometer, includes methods on USB memory stick, 3-position vial holder turret, user documentation, dust cover, USB cable, 110V and 220V power cords	1

**COD Analysis Kits, see page 11**

**thermo scientific**

Use the **Orion Star T910 pH titrator** for dedicated acid-base titrations including:

- Titratable acidity of juices and wines
- Acidity of food products
- Alkalinity of waters
- Acidity and alkalinity of consumer products

For additional information visit [thomasci.com](http://thomasci.com)  
Keyword: 1160V89

Thomas offers Orion Star T910 kits: Standard, Standard and Advanced

## Welch Model 2019 Vacuum Pump

Affordable Model 2019 vacuum pump is durable and chemical resistant. Use Model 2019 for vacuum filtration, desiccation, degassing, and other mid-range vacuum applications. Free air flow 37L/min; Maximum vacuum 24" Hg. Pump can also be used to pressurize up to 18 PSIG. Comes standard with 115V line cord and convenient power switch.



Thomas No.	Mfr. No.	Description	Each
1204C21	2019B-01	Vacuum filtration pump, Chemical resistant, 37 L/min, 24" Hg, 115V	1

## Welch WOB-L Piston Vacuum Pumps

- Economical
- Oil Free
- Adjustable Vacuum/Pressure

Use these affordable oil-free pumps to provide convenient vacuum throughout the lab. Welch WOB-L piston pumps provide adjustable vacuum for filtration, SPE, vacuum ovens, and more. These pumps are an efficient alternative to water aspirators. Select vacuum range 100 to 5 torr; flow range 22 to 201 l/min. For use with dry or aqueous vapor applications only, 115V.



Thomas No.	Mfr. No.	Description	Flow Rate	Vacuum, in. Hg.	Each
7893N65	2522B-01	Vacuum pump	22 l/min	26	1
7893N67	2534B-01	Vacuum pump	34 l/min	27.2	1
1233K63	2546B-01	Vacuum pump	46 l/min	27.6	1

## Welch Dryfast Vacuum Pumps

- PTFE heads give high chemical resistance
- Vacuum levels as low as 29.6" Hg

Tune-able Vacuum for Chemical Applications - filtrations and volatile solvent evaporations - rotovaps, concentrators, & vacuum ovens. Achieve precise vacuum control for organic evaporations with Welch's Advanced Vapor Management (AVM). Choose from six dry PTFE vacuum pump models with flows up to 70 L / min and adjustable vacuum down to 2 Torr. Economical DryFast™ vacuum pumps are perfect for tough lab applications.



Thomas No.	Mfr. No.	Description	Flow Rate	Vacuum, in. Hg.	Each
1208U34	2014B-01	DryFast Vacuum Pump	35 l/min	28.3	1
1208U36	2034B-01	DryFast Vacuum Pump	25 l/min	29.6	1
1208U38	2044B-01	DryFast Vacuum Pump	35 l/min	29.6	1
1208U40	2037B-01	DryFast Vacuum Pump	50 l/min	28.5	1
1208U42	2047B-01	DryFast Vacuum Pump	70 l/min	28.5	1

## Welch Utility Vacuum Pumps

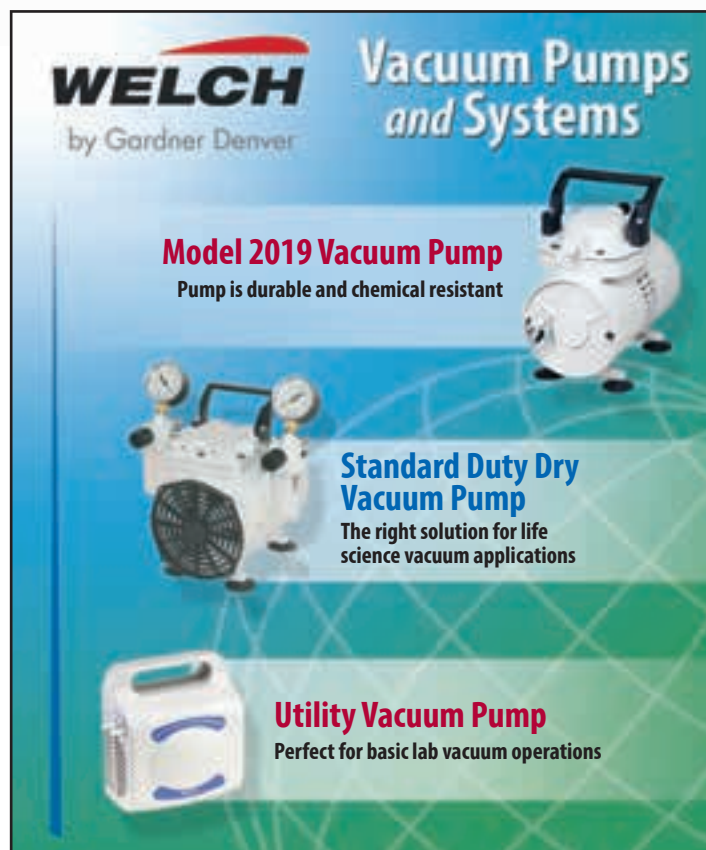
- Standard Duty

Handy Welch pump is perfect for basic lab vacuum operations. Dry or aqueous vapors only, portable, vacuum or pressure, 115V.



Thomas No.	Mfr. No.	Description	Flow Rate	Vacuum, in. Hg.	Each
1208U26	2511B-01	Vacuum pump	11 l/min	21.3	1
1208U27	2511C-02	Vacuum pump, 230V/50Hz with Skuko plug	9 l/min	21.3	1





**WELCH**  
by Gardner Denver

**Vacuum Pumps and Systems**

**Model 2019 Vacuum Pump**  
Pump is durable and chemical resistant

**Standard Duty Dry Vacuum Pump**  
The right solution for life science vacuum applications

**Utility Vacuum Pump**  
Perfect for basic lab vacuum operations

## Hach Digital Titrator

- Faster than a buret
- Accurate to  $\pm 1\%$
- Completely portable
- Interchangeable cartridges

Hach's digital titrator is fast, accurate and produces repeatable results. It uses concentrated titrants packaged in compact, interchangeable cartridges formulated for measuring over 40 parameters.



Thomas No.	Mfr. No.	Description	Each
9866K53	1690001	Digital Titrator w/Case, Manual and 5 Straight Delivery Tubes	1

## Lab Synergy TitroLine® 7000

- High visibility, full color display that can be easily viewed from a distance and at extreme angles
- Reagent data is securely stored in the intelligent and interchangeable modules
- Automatic wireless recognition of SCHOTT® Instruments ID electrodes guarantees accurate calibration and measurements (TitroLine® 7000)
- Touch keypad interface for error free operation
- Includes three USB and two RS23201 ports for expansion and connection of devices such as USB storage of methods and data, stirrer, laboratory balance, PC and additional SI Analytics peripheral devices
- Versatile and flexible for a variety of applications



Thomas No.	Mfr. No.	Description	Each
1203Z12	285220100	TitroLine® 7000, Basic unit without magnetic stirrer, with stand rod and titration clamp Z 305, power supply 100-240 V	1

## Thermo Scientific™- Barnstead Mega-Pure Water Stills and Accessories

Simple operation and highly dependable, for producing biologically pure, pyrogen-free water.

- Choose from three models depending upon your specific volume needs
- Features a vertical condenser for maximum efficiency and removal of gaseous impurities
- Pyrex® trap to remove airborne contaminants
- Choice of wall or bench-mounting



Thomas No.	Mfr. No.	Description	Each
3915G20	A440267	Water Still, Model Mp-1, 120V	1
3915L41	A440367	Water Still, Model Mp-3A, 240V	1
0319G61	A440266	Water Still, Model Mp- Without Bottle CSA	1

## LaMotte Dissolved Oxygen Test Kit

### Direct Reading Titrator

- Sufficient for 50 tests at 10ppm
- Uses azide modification of the Winkler Method
- Azide eliminates nitrite interference
- Range/sensitivity is 0-10ppm/0.2ppm



Thomas No.	Mfr. No.	Description	Each
9860J78	5860-01	Dissolved Oxygen Kit	1
9860J79	R-5860	Dissolved Oxygen Refill Kit	1

## LaMotte Water Test Strips

Insta-Test® strips are available to perform checks for water quality factors. Test strips are a quick way to monitor water without having to use reagents.



Thomas No.	Mfr. No.	Description	Each
9591D27	2974	Insta-Test Strips®, pH, Wide Range, Vial 50	1
9591D29	2994	Insta-Test Strips®, Iron and Copper, Vial 50	1

## Thermo Scientific™ RT Large Basic Stirrers and Plate cover

- Strong magnetic coupling to ensure consistent stirring during experimental procedures
- Three size options
- Low profile lightweight design with small footprint
- Speed Control: 150 to 2500rpm
- Two non-slip silicone plate covers provided with all units (1 black, 1 white)



Thomas No.	Mfr. No.	Description	Each
1199A25	88880011	RT Basic Stir Lg 120V/US Plg	1
1199A26	88880012	RT Basic Stir Lg 230V/int'l Plgs	1
1199A27	88880146	Plate cover (White color, Silicon 220cm)	1



# Water/Wastewater Analysis

(continued)

## Thomas® Laboratory and Engineering Notebooks

- Tamper-evident, section-sewn binding
- Acid-free, archival-safe paper
- Imprinted with 1/4" scientific grid or scientific ruling
- Available in 120 or 216 page formats



Thomas No.	Description	Each	Case
1236E02	Laboratory Notebook, Ruled, 120 Pg.	1	10
1236E04	Laboratory Notebook, Ruled, 216 Pg.	1	10
1236E06	Laboratory Notebook, Grid, 120 Pg.	1	10
1236E08	Laboratory Notebook, Grid, 216 Pg.	1	10
1236E10	Engineering Notebook, Grid, 120 Pg.	1	10
1236E12	Engineering Notebook, Grid, 216 Pg.	1	10

## Thermo Scientific™ Custody Seals

Custody seals provide a complete chain-of-custody and security with all sample containers. They cannot be removed without tamper evidence.



Thomas No.	Mfr. No.	Description	Case
1709B54	500	Custody Seal, 7" X 1"	100

## Thomas® Traceable® Digital-Bottle™ Refrigerator/Freezer Thermometer with Min/Max Readings

Accurately monitor temperatures in freezers, refrigerators, incubators, and environmental chambers with this temperature-buffered sensor. Bottle and solution insulate sensor from rapid temperature changes when refrigerator door is opened. Solution mimics exact temperature of samples.



Thomas No.	Description	Each
1221Z93	Digital Bottle Refrigerator/Freezer/Thermometer +/-1C	1
1221Z95	Digital Bottle Refrigerator/Freezer/Thermometer +/-1C Glass Bead	1

## Thomas® Traceable® Lollipop Shock/Waterproof Thermometer

- Ideal for indoor/outdoor use
- Minimum/maximum memory
- Temperature range is -58° to 572°F and -50° to 300°C



Thomas No.	Description	Each
1235D23	Traceable® Waterproof Thermometer ±1°C Accuracy	1
1235D30	Traceable® Waterproof Thermometer ±0.4°C Accuracy	1

## Sper Scientific 12:1 IR Thermometers

- 12:1 distance to spot ratio (D:S)
- Measures up to 999°F (535°C) in 0.1° resolution
- Rugged and ergonomically designed
- Auto power off



Thomas No.	Mfr. No.	Description	Each
1230N01	800103	IR Thermometer, 12:1, 999°F	1

## Sper Scientific Min/Max Thermometers

### Min/Max Thermometer Magnet

Used in weather stations, cold storage rooms, construction, industry, or anywhere, indoor and out, requiring a record of minimum and maximum temperatures. Small floats are pushed to each temperature extreme by the two mercury columns and stay there until reset with the attached magnet. Dual scales of -50/50°C and -60/120°F. Weight: 4 oz. (108g). Dim: 11" x 21/2" x 1" (279 x 64 x 25mm).



Thomas No.	Mfr. No.	Description	Each
1226Z65	736680	Thermometer Min/Max Magnetic Reset	1

## Sper Scientific 8:1 IR Thermometers

- 8:1 distance to spot ratio (D:S)
- Rugged and ergonomically designed
- Auto power off



Thomas No.	Mfr. No.	Description	Each
1230M99	800101	IR Thermometer, 8:1, 605°F	1

## Sper Scientific Sound Level Pen

### Type 2 sound meter with one-button operation

The Sound Level Pen is the smallest, lightest, easiest to carry sound meter in the world. Despite its small size, the Sound Level Pen is a fully functioning type 21 sound meter perfect for testing OSHA requirements and most other sound meter applications. Autoranging with simple one-button operation.



Thomas No.	Mfr. No.	Description	Each
1225A63	840018	Sound Level Pen	1

## Thermo Scientific™ Capitol Vial Round Bottom Sample Tubes

Collect, store and transport samples with the Thermo Scientific™ Capitol Vial 16 x 75mm Round Bottom Sample Tubes.



Thomas No.	Mfr. No.	Description	Case
1185C09	S40125	16 I.D. x 75mm L; Polypropylene	1000

## Thomas® Thermometer/Clock

- Internal sensor
- Measures in both Fahrenheit and Celsius
- Audible alarm

Unique unit simultaneously displays time of day, temperature, and humidity. Individually serial-numbered Traceable® Certificates in the areas of time, temperature and humidity are provided from our ISO 17025 calibration laboratory accredited by A2LA. These certificates indicate traceability to standards provided by NIST (National Institute of Standards and Technology).



Thomas No.	Description	Each
9337T07	Thermometer / Clock	1

## Thomas® Traceable® Multi-Colored Timer

- Add color to your lab, 4-channel multi-colored timer, personalize your timer, show your distinct style with customized bold colors - a fresh look for the lab
- 3-bright colorful supplied frames permit personalization of timer
- Assorted colored frames supplied with each timer
- 4-separate timing channels countdown and alarm
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming indicating elapsed time since alarming
- Times up to 99 hours, 59 minutes, 59 seconds
- Settable to one second with one second resolution
- Accuracy is 0.01%
- 4 channels count up in stopwatch mode
- Time-of-day clock (12/24 hour)



Thomas No.	Description	Each
1229S19	Traceable Timer, Multi-Colored	1

## Microflex MidKnight™ Black Nitrile Gloves

**Offers the superior combination of durability and protection against day-to-day hazards in a comfortable nitrile glove**

- Powder-free
- Fully textured for enhanced tactile sensitivity and a consistent grip



Thomas No.	Mfr. No.	Description	Pack	Case
1229F24	MK-296-XS	Gloves, Black Nitrile, Extra Small	100	1000
1229F25	MK-296-S	Gloves, Black Nitrile, Small	100	1000
1229F26	MK-296-M	Gloves, Black Nitrile, Medium	100	1000
1229F27	MK-296-L	Gloves, Black Nitrile, Large	100	1000
1229F28	MK-296-XL	Gloves, Black Nitrile, Extra Large	100	1000
1229F29	MK-296-XXL	Gloves, Black Nitrile, 2X-Large	100	1000

## Microflex Dura Flock™ Nitrile Gloves

- 8 mil nitrile, 25% thicker than standard disposable gloves
- 100% nitrile, latex-free
- Increased durability and superior protection
- Comfortable to wear for extended periods and reduces hand fatigue
- Exclusive ultra-thin, moisture-absorbing flock-lining keeps hands dry
- Fully-textured for a firm, reliable grip



Thomas No.	Mfr. No.	Description	Pack	Case
1227N14	DFK-608-S	Gloves Dura Flock, Nitrile, Small	50	500
1227N15	DFK-608-M	Gloves Dura Flock, Nitrile, Medium	50	500
1227N16	DFK-608-L	Gloves Dura Flock, Nitrile, Large	50	500
1227N17	DFK-608-XL	Gloves Dura Flock, Nitrile, X-Large	50	500
1227N18	DFK-608-XXL	Gloves Dura Flock, Nitrile, 2X-Large	50	500

## Kimberly Clark Spring Green Nitrile Powder-Free Exam Gloves

- 4.7 mil, ambidextrous gloves with textured fingertips for enhanced grip
- Excellent wet and dry grip to reduce potential for slips
- Beaded cuffs for added strength and donning ease
- Free of natural rubber latex
- Superior quality – 0.65 AQL exceeds the ASTM 2.5 standard for critical defects (pinholes)



Thomas No.	Mfr. No.	Description	Box	Case
1190Y71	50705	Spring Green Nitrile Exam Gloves, XS	200	2000
1190Y72	50706	Spring Green Nitrile Exam Gloves, S	200	2000
1190Y73	50707	Spring Green Nitrile Exam Gloves, M	200	2000
1190Y74	50708	Spring Green Nitrile Exam Gloves, L	200	2000
1190Y75	50709	Spring Green Nitrile Exam Gloves, XL	180	1800

## Kimberly Clark Forest Green Nitrile Powder-Free Exam Gloves

- 3.5 mil, ambidextrous gloves with textured fingertips for enhanced grip
- Excellent wet and dry grip to reduce potential for slips
- Beaded cuffs for added strength and donning ease
- Free of natural rubber latex
- Superior quality – 1.5 AQL exceeds the ASTM 2.5 standard for critical defects (pinholes)



Thomas No.	Mfr. No.	Description	Box	Case
1190Y76	43443	Forest Green Nitrile Exam Gloves, XS	200	2000
1190Y77	43444	Forest Green Nitrile Exam Gloves, S	200	2000
1190Y78	43445	Forest Green Nitrile Exam Gloves, M	200	2000
1190Y79	43446	Forest Green Nitrile Exam Gloves, LG	200	2000
1190Y80	43447	Forest Green Nitrile Exam Gloves, XL	200	2000
1190Y81	43448	Forest Green Nitrile Exam Gloves, XXL	180	1800

**Can't find what you are looking for?** Visit [thomassci.com](http://thomassci.com) or ask your Thomas Scientific Representative. *We are here to help!*

## Air & Liquid Monitoring

### GE Healthcare QM-A Quartz Fiber Filters

#### Grade QM-A circles

High-purity quartz (SiO<sub>2</sub>) microfiber filters are used for air sampling in acidic gases, stacks, flues and aerosols, particularly at high temperatures up to 500°C and in PM-10 testing. Because of the low level of alkaline earth metals, "artifact" products of sulfates and nitrates (from SO<sub>2</sub> and NO<sub>2</sub>) are virtually eliminated. QM-A, sequentially numbered according to EPA standards, is suitable for most applications.



Thomas No.	Mfr. No.	Description	Pack
1212F26	1851-025	QM-A Quartz Fiber Filters, circle, 25mm	100
0898Q31	1851-037	QM-A Quartz Fiber Filters, circles, 37mm	100
0898Q30	1851-047	QM-A Quartz Fiber Filters, circles, 47mm	100
1212F28	1851-050	QM-A Quartz Fiber Filter, circle, 50mm	100
1212F31	1851-090	QM-A Quartz Fiber Filters, circle, 90mm	100
1212F36	1851-8866	QM-A Quartz Fiber Filters, circle, 8 x 10 in., numbered	100

### GE Healthcare PTFE Membrane Circles TE Range

- Suitable for filtration of gases and liquids
- Resistant to most acids, alkalis, and solvents such as sodium hydroxide and hexane
- Laminated onto a nonwoven polypropylene support material
- Increased durability for aggressive testing environments
- Hydrophobic characteristics prevent passage of aqueous aerosols (e.g., during venting applications)



Thomas No.	Mfr. No.	Description	Pack
1212C06	10411205	PTFE Membrane Circle TE Range (TE 37), 1µm pore size, 25mm	50
1212C08	10411213	PTFE Membrane Circle TE Range (TE 37), 1µm pore size, 50mm	50
1212C09	10411305	PTFE Membrane Circle TE Range (TE 36), 0.45µm pore size, 25mm	50
1212C10	10411311	PTFE Membrane Circle TE Range (TE 36), 0.45µm pore size, 47mm	50
1212C11	10411313	PTFE Membrane Circle TE Range (TE 36), 0.45µm pore size, 50mm	50
1212C12	10411405	PTFE Membrane Circle TE Range (TE 35), 0.2µm pore size, 25mm	50
1212C13	10411411	PTFE Membrane Circle TE Range (TE 35), 0.2µm pore size, 47mm	50
1212C14	10411413	PTFE Membrane Circle TE Range (TE 35), 0.2µm pore size, 50mm	50

### GE Healthcare Cyclopore™ and Nuclepore™ Polycarbonate Membranes

#### Membrane filters for asbestos sampling and analysis

- Controlled pore size distribution
- Smooth flat membrane: particles are retained on surface and easily visible during optical analysis



Thomas No.	Mfr. No.	Description	Pack
4625C15	110606	Nuclepore Circles, Polycarbonate Membrane, 25mm 0.2µm	100
4625D15	110607	Nuclepore Circles, Polycarbonate Membrane, 25mm 0.4µm	100
1212H59	7060-2502	Cyclopore Circles, Polycarbonate Membrane, 0.2µm pore size, 25mm	100
1212H60	7060-2504	Cyclopore Circles, Polycarbonate Membrane, 0.4µm pore size, 25mm	100

More sizes available at [thomassci.com](http://thomassci.com), Keyword: 4625C15

### GE Healthcare Whatman™ GF/A Borosilicate Glass Microfiber Filter Discs

#### 1.6µm Retention

- Efficient retention of small size particles to 1.6µm
- Extremely high flow rate; filtration takes place both vertically and laterally through the filters
- High loading capacity, which continues to filter efficiently for a greater extended period



Thomas No.	Mfr. No.	Description	Pack
0898Q94	1820-025	Filter Glass GF/A, Glass Circles, 25mm	100
0898Q93	1820-037	Filter Glass GF/A, Glass Circles, 37mm	100
4751F22	1820-047	Filter Disc, GF/A, Glass Circles, 47mm	100
1212F05	1820-050	Filter Glass GF/A, Glass Circles, 50mm	100
0898Q90	1820-090	Filter Glass GF/A, Glass Circles, 90mm	100
0898Q87	1820-150	Filter Glass GF/A, Glass Circles, 150mm	100

### Bioscience, Inc. SAS Super 100 Air Sampler

#### For monitoring air for bacteria, fungi and viruses

- Meets FDA requirements for acceptable environmental monitoring as outlined in the Guideline on Sterile Drug Products produced by Aseptic Processing
- Test up to 1,000 liters of air per 10 minute cycle
- Nominal air flow rate: 100 liters/minute
- Use either general or specific types of agar



Thomas No.	Mfr. No.	Description	Each
8250A50	18198	SAS Super 100 Air Sampler	1

### Saint Gobain Chemware® PVDF Bags with On/Off Valve

- Flexible
- Non contaminating
- On/off valve closure
- Use for gas or liquid sample containment
- Heat-sealed seams for leak-proof operation

Reusable bags made of 2 mil PVDF fluoropolymer film, Chemware® Gas Bags offer an economical alternative for analysis of non-corrosive gases. Durable, heat-sealed seams ensure leak-proof operation. Applications include sampling carbon monoxide, sulfur dioxide, hydrogen sulfide, radon and mercaptan. When used for liquid samples, bags should be supported with a tray. Not pressure rated. Custom sizes and configurations are available upon request.



Thomas No.	Mfr. No.	Description	Each
0686T82	D1075010	Saint-Gobain Chemware® 9 x 9 PVDF Bag for Gas/Liquid Sampling with On/Off Valve - 1 pc.	1
1203G26	DD1075011	Saint-Gobain Chemware® 12 x 12 PVDF Bag for Gas/Liquid Sampling with On/Off Valve - 1 pc.	1
0686T90	D1075018	Saint-Gobain Chemware® 9 x 9 PVDF Bag for Gas/Liquid Sampling with Septum Closure - 1 pc.	1
0686T89	D1075017	Saint-Gobain Chemware® 12 x 12 PVDF Bag for Gas/Liquid Sampling with Septum Closure - 1 pc.	1



## Chromatography

### labForce (a Thomas Scientific brand) Autosampler Vials, 12x32mm with 9mm Screw Thread

- Manufactured from Type I borosilicate glass
- Designed to work in robotic arm autosamplers
- Available with graduated marking spot



Thomas No.	Description	Pack	Case
1159M01	2.0mL Clear Vial, 12x32mm, 9mm Thread	100	1000
1159M02	2.0mL Amber Vial, 12x32mm, 9mm Thread	100	1000
1159M03	2.0mL Clear Vial, 12x32mm, 9mm Thread, with White Graduated Spot	100	1000
1159M04	2.0mL Amber Vial, 12x32mm, 9mm Thread, with White Graduated Spot	100	1000

### labForce (a Thomas Scientific brand) 9mm Vial with Fused Insert

- Capacity - 300uL
- Manufactured from Type I borosilicate glass
- Marking spot



Thomas No.	Description	Pack
1159M00	300uL Clear Vial with Fused Insert, 12x32mm, 9mm Thread with White Marking Spot	100

### labForce (a Thomas Scientific brand) 9mm Polypropylene Screw Thread Vial

- 12 x 32mm vial with a 40% larger opening
- Capacity - 100uL to 300uL
- Manufactured from chemical resistant polypropylene



Thomas No.	Description	Pack	Case
1159L99	9mm Polypropylene Screw Thread Vial	100	1000

### labForce (a Thomas Scientific brand) Pre-Assembled 9mm Closures

- Pre-assembled closures and septa come ready to use
- Designed to work in robotic arm autosamplers



Thomas No.	Description	Pack	Case
1159M08	9mm Polypropylene Screw Thread Vial	100	1000
1159M09	9mm Smooth Cap, Black, PTFE/Silicone Lined	100	1000
1159M10	9mm Smooth Cap, Black, PTFE/Silicone Lined	100	1000
1159M11	9mm Smooth Cap, Red, PTFE/Silicone Lined	100	1000
1159M12	9mm Smooth Cap, Royal Blue, PTFE/Silicone Lined	100	1000
1159M13	9mm Smooth Cap, Yellow, PTFE/Silicone Lined	100	1000
1159M14	9mm Smooth Cap, Black, PTFE/Silicone/PTFE Lined	100	1000
1159M15	9mm Smooth Cap, Royal Blue, PTFE/Silicone/PTFE Lined	100	1000
1159M16	9mm Smooth Cap, Yellow, PTFE/Silicone/PTFE Lined	100	1000
1159M17	9mm Ribbed Cap, Royal Blue, PTFE/Butyl Rubber Lined	100	1000
1159M18	9mm Ribbed Cap, Green, PTFE/Silicone Lined	100	1000
1159M19	9mm Ribbed Cap, Green, PTFE/Silicone Lined	100	1000
1159M20	9mm Ribbed Cap, Royal Blue, PTFE/Silicone Lined	100	1000

### National Scientific Target DP\* 9mm Convenience Kits and Assembled Vial Kits

#### Features of Target DP 9mm Vial Closures (included in kits):

- Septa push through nearly eliminated due to improved interior geometry without the need for bonding
- Increased sealing capability
- AVCS provides the freedom to select the best septum for your instrument and applications
- Cost efficient alternative to current choices for resolving push through (bonded septa)
- Optimized ergonomics, fine texturing and evenly spaced ribbing for superior handling even with poorly fitting gloves
- Rough edges have been eliminated making it easier and more comfortable to use while improving autosampler operation



Thomas No.	Mfr. No.	Description	Pack
1203G16	C5000-80	Convenience Kit, 2mL Clear Glass, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
1203G17	C5000-80W	Convenience Kit - 2mL Clear Glass with patch, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
1203G18	C5000-86W	Convenience Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone/Red PTFE	100
1203G19	C5000-92	Convenience Kit, 2mL Clear Glass, 9mm PP Blue Cap, Red PTFE/ White Silicone	100
1203G20	C5000-92W	Convenience Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone	100
1203G21	C5000-95W	Convenience Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Blue PTFE/ White Silicone, PreSlit	100
1203G22	C5000-180	Pre-Assembled Kit, 2mL Clear Glass, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
1203G23	C5000-180W	Pre-Assembled Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
1203G24	C5000-186W	Pre-Assembled Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone/Red PTFE	100
1203G25	C5000-192W	Pre-Assembled Kit, 2mL Clear Glass w/Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone	100

### Hamilton Purge and Trap Syringes

- Designed for the analysis of drinking water samples according to EPA purge and trap concentration techniques



Easy-to-remove syringe plunger for loading water samples into syringe barrel. Internal standard or surrogate sample can be added directly through twist valve.

Thomas No.	Mfr. No.	Description	Each
8928C95	81570	Syringe Purge and Trap, 5mL	1
8928C98	82570	Syringe Purge and Trap, 25mL	1

*We have all of your Chromatography  
needs! Please visit [thomassci.com](http://thomassci.com)*

## Chromatography *(continued)*

### Hamilton HDHT Headspace Syringes with Glue-Free Needles

Hamilton introduces a new headspace syringe featuring a unique Glue-Free (GF) needle attachment in combination with the well-known High Dynamic (HD) plunger designed specifically for PAL COMBI-xt Headspace Autosamplers.



Thomas No.	Mfr. No.	Description	Each
1183J18	209681	1mL, Model 1001, 23 Gauge, Point Style 5	1
1183J19	209682	1mL, Model 1001, 26 Gauge, Point Style 5	1
1183J20	209683	2.5mL, Model 1002, 23 Gauge, Point Style 5	1
1183J21	209684	2.5mL, Model 1002, 26 Gauge, Point Style 5	1
1183J22	209685	2.5mL, Model 1005, 23 Gauge, Point Style 5	1

### Hamilton Microlab 600 Dispensers and Diluters

There are three different dispenser models available all designed to dispense volumes from 100nL to 50mL. The Single Syringe Dispenser is ideal for dedicated dispensing applications requiring a single syringe drive. The Dual Syringe Dispenser has two syringe drives for applications such as Animal Dosing that require the use of more than one liquid at the same time. The Continuous Dispenser is designed for time critical applications requiring repetitive dispensing.



The basic controller comes standard with a Quick Start run screen that provides basic diluting and dispensing functionality. The advanced controller delivers additional functions through intuitive wizards and the custom method editor. Wizard settings can be saved as favorites or custom methods on the hardware key. The Basic Controller can be upgraded to the Advanced Controller if it is not selected initially.

Thomas No.	Mfr. No.	Description	Each
1220B14	ML610-DIS	MicroLab 600 Single Syringe Dispenser with Basic Controller	1
1221W13	ML620-DIS	MicroLab 600 Single Syringe Dispenser with Advanced Controller	1
1221W11	ML615-DIS	MicroLab 600 Dual Syringe Dispenser with Basic Controller	1
1221W15	ML625-DIS	MicroLab 600 Dual Syringe Dispenser with Advanced Controller	1
1221W12	ML615-CNT	MicroLab 600 Dual Syringe Continuous Dispenser with Basic Controller	1
1221W16	ML625-CNT	MicroLab 600 Dual Syringe Continuous Dispenser with Advanced Controller	1
1221W10	ML615-DIL	MicroLab 600 Dual Syringe Diluter with Basic Controller	1
1221W14	ML625-DIL	MicroLab 600 Dual Syringe Diluter with Advanced Controller	1

For more product information and additional product listings, please visit [thomassci.com](http://thomassci.com), Keyword: 1221W10

### Hamilton PRP-X100 Anion Exchange HPLC Columns

- Easily separate the eight common anions (fluoride through sulfate)
- Good separation of fluoride from the water dip
- Use with organic solvent from 0 to 100% for elution of hydrophobic anions or column cleaning
- pH stable from 1 to 13
- Use conductivity or UV detection
- Three particle sizes: 5, 10 and 12-20µm



Thomas No.	Mfr. No.	Description	Each	Pack
0470U19	79446	Cartridge Replacement PRP-X100	—	5
0470U25	79448	Column Starter Kit PRP-X100	1	—
0470U68	79434	Column PRP-X100, 10µm 150 x 4.1mm	1	—
0470U69	79433	Column PRP-X100, 10µm 250 x 4.1mm	1	—
1216L97	79181	Column PRP-X100, 4.6 x 250mm Peek	1	—
1216L98	79174	Column PRP-X100, 5µm, 150 x 4.6mm	1	—
1216L99	79354	Column PRP-X100, 150 x 4.6mm Peek	1	—
1216M00	79455	Column PRP-X100, 10µm 250 x 4.6mm	1	—
1216M01	79190	Column PRP-X100, 5µm 250 x 2.1mm	1	—
1216M02	79538	Column PRP-X100, 5µm, 100 x 4.1mm	1	—
1216M03	79665	Column PRP-X100, 7µm, 150 x 4.6mm	1	—
1216M04	79383	Starter Kit, Peek GD Column, X100	1	—
1207L01	79812	Column PRP-X100, 5µm 4.1 x 150mm	1	—

**HAMILTON**  
THE MEASURE OF EXCELLENCE™

### Superior separation for Environmental Water and Soil Analyses

Hamilton offers a complete selection of polymer-based HPLC columns for Reversed-Phase, Anion Exchange, Cation Exchange and Ion Exclusion as well as silica-based for Reversed-Phase columns. From columns to syringes to septa and more, Hamilton Company offers a full line of off-the-shelf and custom chromatography products for HPLC.

Choose from a variety of different packing materials, varying particle sizes and column hardware dimensions in two hardware types—stainless steel and polyether ether ketone (PEEK) plastic.

Hamilton Company has been developing and manufacturing pressure-stable polymeric high performance liquid chromatography (HPLC) columns for nearly 35 years. As an established name in science, Hamilton chromatography products can be found in most of the world's top chromatography labs.

HPLC  
Columns



## Chromatography (continued)

J.G. Finneran

## R.A.M.™ Large Opening Vials

- 40% larger opening
- Type I Borosilicate glass
- Clear or amber

These vials function similarly to the Kimble ROBO Vial™, National's Target DP, Sun 1 and Wheaton ABC Vials. Specifically designed to work in robotic arm autosamplers like Agilent (HP). Unique StepVial design precisely centers a limited volume insert in the vial neck. Available with marking spots and graduated with marking area.



Thomas No.	Mfr. No.	Description	Pack	Case
2695A01	32009-1232	2.0mL Clear Vial	100	1000
2695A07	32009-1232A	2.0mL Amber Vial	100	1000
2695A25	32009E-1232	2.0mL Clear Vial w/White* Graduated Marking Spot	100	1000
2695A55	32009E-1232A	2.0mL Amber Vial w/White* Graduated Marking Spot	100	1000
2695C07	5395F-09RB	9mm R.A.M.TM Cap, Royal Blue, PTFE/Silicone	100	1000

\*Graduated marking spots also available in blue, green, rust and yellow. Contact your Thomas Scientific Representative for information.

## Cleanup

NPS

## Multi-Purpose Lab Soakers

Spilfyter® Soakers provide absorption protection against spills and cushioning to minimize breakage. Soakers are made with multiple layers of 100% recycled tissue and a plastic poly backing for diaper-like characteristics. Heavy duty models feature durable fabric top.



Thomas No.	Mfr. No.	Description	Each
1233K17	37031-060	Lab Soaker, Light Duty Roll, 20" x 400'	1
1233K18	37031-080	Lab Soaker, Light Duty Pad, 16" x 20"	1
1233K19	47031-000	Lab Soaker, Heavy Duty Roll w/Fabric Top, 20" x 200'	1
1233K20	47031-018	Lab Soaker, Heavy Duty Pad w/Fabric Top, 16" x 20"	1

## National Chemical Laboratories

### MICRO-CHEM PLUS™

### Disinfectant Detergent

MICRO-CHEM PLUS™ cleans, deodorizes and disinfects all hard non-porous household surfaces. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling. This product is non-abrasive cleaner for showers, tubs, shower doors, vinyl and plastic shower curtains, fixtures and toilet bowls. This product is an economical concentrate that can be used with a mop and bucket, hand pump trigger sprayer, low pressure coarse sprayer or sponge. Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).



Thomas No.	Mfr. No.	Description	Each	Case
C849T34	0255-29	MICRO-CHEM PLUS Disinfectant Detergent, 4 x 1 gal.	—	4
C841M30	0255-18	MICRO-CHEM PLUS Disinfectant Detergent, 55 gal.	1	—

## EMD Millipore

### SpillSolv®

### Chemical Spill Kits

## Caustic Spill Kit

Kit contains 6 x 0.9 kg Caustic Neutralizer; 1 pair splash goggles with ventilation; 1 pair Nitrile gloves; 6 heavy-duty disposal bags that measure 14" x 20" x 4 mil; 4 disposable plastic scoops and scrapers; 1 large sponge for residue cleanups and a treatment guide.

## Multi-Purpose Spill Kit

- For acid, caustic and solvent spills

Kit contains 2 x 1 kg Acid Neutralizer; 2 x 0.9 kg Caustic Neutralizer; 2 x 0.5 kg Volatile Adsorbent Powder; 1 pair splash goggles with ventilation; 1 pair Nitrile gloves; 6 heavy-duty disposal bags that measure 14" x 20" x 4 mil; 4 disposable plastic scoops and scrapers; a large sponge for residue cleanups and a treatment guide.



Thomas No.	Mfr. No.	Description	Each
8237A01	SX1300-1	SpillSolv® Spill Kit, Multi-purpose	1
8237A03	SX1300R-1	SpillSolv® Spill Kit, Multi-purpose, Replacement Kit	1
8237A05	SX1310-1	SpillSolv® Spill Kit, Acid, Bulk Neutralizer	1

Alconox

## Liquinox® Biodegradable

## Cleaning Compound

- Mild to skin and phosphate-free

Liquinox® (pH 8.5) cleans glass, metal, rubber, plastic and hard-surface materials. Liquid detergent concentrate is readily soluble in hard or soft water, and has biodegradable base. Detergent features a special formulation of anionic and non-ionic detergents and wetting agents. Detergent has high cleaning power, yet is mild to skin and contains no phosphates.



Thomas No.	Mfr. No.	Description	Bottle	Case
2902N10	1232	Liquinox®, 1 qt. Bottle	1	12
2902N20	1201	Liquinox®, 1 gal. Bottle	1	4

Alconox

## Alconox® Detergent

## Biodegradable

## Cleaning Compound

- For general laboratory use
- Suitable in ultrasonic cleaners
- Mild, odorless, non-toxic powdered wetting agent and detergent for cleaning glassware, porcelain, metal, plastic or rubber

Detergent removes grease, blood, tissue, etc. and is especially effective for penetrating irregular and inaccessible surfaces. Usual dilution is 1 tablespoon to 1 gallon water gives pH 9.5 solution.



Thomas No.	Mfr. No.	Description	Box	Case
2902G05	1104	Alconox®, 4 lb. Box	1	9



# Environmental *(continued)*

## Cleanup *(continued)*

### Alconox Alcotabs® Biodegradable Cleaning Compound

- Tablet for siphon type pipette washers at pH 6.5
- Equivalent in composition and cleaning action to 2902G05 (See page 31)



Thomas No.	Mfr. No.	Description	Box	Case
2902L10	1500	Alcotabs®	100	600

### Thomas® Clean-Wipes

- 70% isopropyl or 100% pure water treated wipes
- High-quality, ultra-clean grade
- Strong, soft and lint-free



Thomas No.	Description	Each	Can
2903J78	Clean-Wipes, 70% Isopropyl Alcohol	1	100
2903J75	Clean-Wipes, Deionized Water	1	100
2903J81	Clean Wipes, Dry	1	100

### Kimberly Clark Scott® C Fold Paper Towels

- Color: White
- Size: 0.125" x 13.15"
- Meets EPA Standards



Thomas No.	Mfr. No.	Description	Case
1234Z72	01510	Scott® C Fold Paper Towels	2400

### W.A. Hammond Drierite Co. Drierite® Drying Agent (Anhydrous Calcium Sulfate)

Indicating Grade, 8 Mesh



Thomas No.	Mfr. No.	Description	Each	Case
C289E01	DRI 23001	Drierite® Drying Agent, Indicating Grade, 8 Mesh, 1 lb.	1	12
C289E08	DRI 23005	Drierite® Drying Agent, Indicating Grade, 8 Mesh, 5 lb.	1	4

### Brush Tech Glassware Brushes

Can last up to 10 times longer than most other brushes and up to 20 times longer than most other sponges under normal use

- Sponge-type brush area
- Comfortable handles



Thomas No.	Mfr. No.	Description	Each	Case
1929M20	B55C	Brush, Flexible, 16" L x 7/8" Dia.	1	12
1929M23	B60C	Brush, Polypropylene Handle, Short	1	12
1929M26	B130C	Brush, Polypropylene Handle, Long	1	12

### ITW Dymon SCRUBS® Hand Sanitizer Wipes

- Kills 99.9% of Germs
- Kills MRSA
- Dissolves Bio-film
- Prevents cross-contamination
- Replaces alcohol gels, which do not remove contaminants
- Helps reduce the risk of infection and disease
- Can be used where soap and water are not available



Thomas No.	Mfr. No.	Description	Case
1222J34	DYM90901	SCRUBS® Hand Sanitizer Wipes, Box 100	1
1222J36	DYM90956	SCRUBS® Hand Sanitizer Wipes, 50 Count	6
1222J37	DYM90978	SCRUBS® Hand Sanitizer Wipes, 200 Count	6
1222J38	DYM90985	SCRUBS® Hand Sanitizer Wipes, 85 Count	6

### Globe Scientific Drying and Draining Rack

#### Stain-Resistant Durable Rack

- 72 interchangeable pegs - 11 small pegs
- Drip channel with draining hose
- Mounting kit and template for hanging
- Hooks for joining together additional racks
- Rack dimensions: 17.7"(W) x 24.8"(H) x 4.3"(D) (450mm x 630mm x 110mm)
- Peg Dimensions: 3.7" long x 0.6" diameter (95mm x 15mm)



Thomas No.	Mfr. No.	Description	Each	Pack
1224M36	600213	Drying Rack, 72-place	1	—
1224M37	601213	Pegs, Small, for Drying/Draining Rack	—	11

### Bel-Art Products Scienceware® Lab-Aire® II Drying Racks

#### Dry it - No matter how much space you have

- Single-sided model can fit against a wall or wall-mount to conserve bench space
- Double-sided benchtop model provides twice the capacity with a slightly larger footprint
- Wall-mount model has mounting points sized to fit standard pegboards
- 3 peg lengths to accommodate a wide variety of glassware; pegs can be easily moved and arranged as needed



Thomas No.	Mfr. No.	Description	Each
1229E52	F18933-0011	Lab-Aire® II Drying Rack, Benchtop/Wall Mount, 1 Tier, 19 Pegs	1
1229E53	F18933-0012	Lab-Aire® II Drying Rack, 2 Tier, 38 Pegs 1 Side	1
1229E55	F18933-0014	Lab-Aire® II Drying Rack, Wall Mount, 2 Tier, 38 Pegs	1
1229E58	F18933-0022	Lab-Aire® II Drying Rack, Double Sided, 2 Tier, 76 Pegs	1

## Cleanup (continued)

### United Scientific Supplies Unitary Wash Bottles

These bottles are made of translucent and Low Density Polyethylene. The distinguishing feature that these bottles contain is the built-in delivery tube making it a one-piece wash bottle. These bottles are graduated on the outer surface to reflect an approximate volume of solution filled or dispensed.



Thomas No.	Mfr. No.	Description	Pack
1207M51	36607	125mL Unitary Wash Bottle	12
1207M52	36605	250mL Unitary Wash Bottle	12
1207M53	36606	500mL Unitary Wash Bottle	12

### Bel-Art Products Scienceware® Color-Coded Narrow Mouth Wash Bottles

#### Color-Coded, Polyethylene Bottles

- 2 sizes available: 250, 500mL
- 5 colors (See [thomassci.com](http://thomassci.com) for additional colors)

Ideal for quick, at-a-glance identification of contents. These low-density, polyethylene wash bottles feature color-coded polypropylene cap and nozzle assemblies.



Thomas No.	Mfr. No.	Description	Pack	Case
9765G58	F116170250	Wash Bottle, 250mL, Green	6	36
9765G64	F116180008	Wash Bottle, 250mL, Natural	12	72
9765G90	F116170500	Wash Bottle, 500mL, Green	6	24
9765G96	F116180016	Wash Bottle, 500mL, Natural	12	36

### Kimberly Clark Kimwipe® EX-L Delicate Task Wipers

- Soft and gentle on surfaces
- Absorbent
- Low-linting



Single-ply wipers are soft, non-abrasive and safe for most delicate surfaces. Wipes clean, providing extra low-lint and extractable performance. Easily wipes liquid and dust. Two sizes are packaged in Pop-Up® dispenser boxes.

Thomas No.	Mfr. No.	Description	Box	Case
2904F24	34155	Kimwipes Delicate Task Wipers, White, 4.4" x 8.4"	280	16800
1234Z62	34256	Kimwipes Delicate Task Wipers, White, 14.7" x 16.6"	140	2100

**Safety Wash Bottles**  
can be found at [thomassci.com](http://thomassci.com)  
Keywords: Safety Wash Bottle

## Equipment & Instruments

### IKA RT Multi-Position Magnetic Stirrers with Heating

The RT series of multi-position digital magnetic hotplate stirrers are ideal for synchronous heating and stirring applications. The wear-free magnetic coil technology provides consistent and noiseless stirring on all positions. The RT series of magnetic stirrers are available with 5, 10 and 15 stirring positions and can be used for volumes up to 6 L (H<sub>2</sub>O).



Thomas No.	Mfr. No.	Description	Each
1186V37	3690601	RT 5 Magnetic Stirrer, 115V	1
1186V38	3691101	RT 10 Magnetic Stirrer, 115V	1
1186V39	3692601	RT 15 Magnetic Stirrer, 115V	1

### Benchmark MyFuge™ 12 Mini Centrifuge

- COMBI-Rotor™, for tubes and strips
- Twice the capacity of traditional mini centrifuges
- Near silent operation
- Starts and stops with opening/closing of the lid



Thomas No.	Mfr. No.	Description	Each
1220P38	C1012	MyFuge™12 Mini Centrifuge 100-240V, US	1

### Thomas® Mini Centrifuge

- Eight position microtube rotor
- Storage compartment for PCR rotor
- Near silent operation
- Starts and stops in seconds
- (8) x 0.5mL Tube adapters for microfuge tube rotor included with purchase
- (8) x 0.2mL tube adapters for microfuge tube rotor included with purchase



Thomas No.	Description	Each
1222U60	Thomas® Mini Centrifuge, Red lid 100-240V, US plug	1
1222U61	Thomas® Mini Centrifuge, Red lid 100-240V, EU plug	1

### Thermo Scientific™ Orion™ AQ3700 AQUAfast™ Colorimeter

The Thermo Scientific Orion AQ3700 AQUAfast colorimeter offers a broad range of pre-programmed methods for all of your testing needs. The software prompts you through the test steps, ensuring conformity and consistency in gathering your important test results.



Thomas No.	Mfr. No.	Description	Each
1221V21	AQ3700	AQUAfast Colorimeter Kit	1

## Lovibond® Water Testing

Tintometer® Group



### \$100 Rebate

Limited Time Offer

### Testing for Chlorine?

The Lovibond® MD 100 for Chlorine is a rugged, waterproof instrument. The lightweight design is ideal for field testing or for use in the laboratory.

Scan For  
More Info



\*Offer valid through Dec. 31, 2018

## Lovibond Color of Water Sets

- Designed for measuring unsaturated samples that are below the sensitivity of a normal, hand-held comparator system
- Built-in magnifying prism allows the user to easily view the glass color disc standard and the sample to be matched side-by-side



Thomas No.	Mfr. No.	Description	Each
1220B03	172165	Nesslerizer Color Of Water 250mm Tube	1
1220B04	172175	Nesslerizer Color Of Water 113mm Tube	1
1220B05	284150	Color Of Water Disk, 0-30 Color Units	1
1220B06	284160	Color Of Water Disk, 30-70 Color Units	1
1220B07	284170	Color Of Water Disk, 10-90 Color Units	1
1220B08	353080	Nessler Tubes Set Of 2 113mm w/ Plunger	1
1220B09	354200	Nessler Tubes Set Of 2 250mm w/ Plunger	1

## Lovibond DPD Free & Total Chlorine Reagents

- US EPA for reporting drinking water analysis
- Our design is 37% larger than the competition which makes them easier to handle
- Powder Packs "easy open notches" make it simple to tear open package



Thomas No.	Mfr. No.	Description	Pk
1226X14	530090	DPD Free Chlorine Reagent Powder 5mL	100
1226X15	530093	DPD Free Chlorine Reagent Powder 5mL	1000
1226X16	530100	DPD Free Chlorine Reagent Powder 10mL	100
1226X17	530103	DPD Free Chlorine Reagent Powder 10mL	1000
1226X18	530110	DPD Free Chlorine Reagent Powder 25mL	100
1226X19	530113	DPD Free Chlorine Reagent Powder 25mL	1000

## Lovibond COD Tube Tests

The Chemical Oxygen Demand (COD) test is widely used as a measure of organic contamination by determining the quantity of oxygen required for oxidation of reduced species including organic matter, in a water sample using a specific oxidizing agent, temperature and time reduction.



Thomas No.	Mfr. No.	Description	Pk
1226X32	2420710	COD Tube Test Hg Free 0-150Mg/L UN1760	25
1226X26	2420720	COD Tube Test 0-150Mg/L UN1760	25
1226X27	2420725	COD Tube Test 0-150Mg/L UN1760	150
1226X33	2420711	COD Tube Test Hg Free 0-1500Mg/L UN1760	25
1226X28	2420721	COD Tube Test 0-1500Mg/L UN1760	25
1226X29	2420726	COD Tube Test 0-1500Mg/L UN1760	150

*For additional Equipment and Instruments, see pages 14-25*

## Equipment & Instruments *(continued)*

### Lovibond® MD600™ Colorimeter

- Open Reagent System™ (which uses Powder Pack™, stable tablets and liquid reagents)
- Up to 1,000 data sets can be stored in the instrument's internal memory



Thomas No.	Mfr. No.	Description	Each
1226Y24	214020	MD600 Colorimeter	1

### Lovibond® MD100 Colorimeter for COD Analysis

The MD100 is a single parameter colorimeter for water quality analysis.

#### Ranges of Analysis:

- 0 – 150 mg/l
- 0 – 1,500 mg/l
- 0 – 15,000 mg/l



Thomas No.	Mfr. No.	Description	Each
1210W61	276120	MD100 Colorimeter, COD	1
1210W62	276010	MD100 Colorimeter, Chlorine	1
1210W66	276025	MD100 Colorimeter, Chlorine with Powder Pack Reagents	1
1210W67	278030	MD100 Colorimeter, Chlorine and pH	1



## Equipment &amp; Instruments (continued)

### Boekel Small & Large Desiccators

- Durable, hand crafted construction. Fabricated from stainless steel and glass
- Superior seal integrity
- Rigid door full length door hinges
- One piece neoprene door gasket
- Shelves are adjustable in half-inch increments
- Two different sizes to select from
- Automatic desiccant regeneration available



Thomas No.	Mfr. No.	Description	Each
3744F10	1340	Small Desiccator, 2 cement board shelves & desiccator tray	1
3744F20	1342	Small Desiccator, 2 stainless steel shelves & desiccator tray	1
3744H10	1344	Large Desiccator, 2 stainless steel shelves & desiccator tray	1

### Bel-Art Products Scienceware® Standard, Automatic and Gas Purge Grande Desiccators

- Clear on all sides for quick visualization of desiccator contents
- Rugged copolyester side and top panels and polycarbonate door and rear panel for long life
- Shelves are removable to allow use as a single, spacious chamber for specific storage needs
- Exterior Dimensions: (26 x 24 x 26")
- Interior Dimensions: (18.5 x 20 x 17")
- Interior Capacity: 3.6 cu. ft. (holds 252 cans)



Thomas No.	Mfr. No.	Description	Each
1210A05	F430001010	Grande Desiccator, Standard	1

### Techne Digital Dri-Block® Heaters

- Small, light, compact footprint - flat top surface allows units to be stacked in storage
- Digital models enable highly accurate temperature precision
- Temperature range from ambient + 5°C to 200°C depending on model chosen.
- Advanced temperature control. Temperature stability at 37°C ± 0.1°C.
- Outer casing is cool to the touch, even at maximum operating temperature.



Thomas No.	Mfr. No.	Description	Each
1200Z71	3662001	Ambient + 5°C to 100°C, 2 Blocks, 115V	1
1200Z75	3662009	Ambient + 5°C to 200°C, 2 Blocks, 115V	1
1200Z77	3662011	Ambient + 5°C to 200°C, 3 Blocks, 115V	1
1200Z79	3662005	Ambient + 5°C to 100°C, 3 Blocks, 115V	1
1200Z72	3662003	Ambient + 5°C to 100°C, 2 Blocks Twin Control, 115V	1
1200Z74	3662002	Ambient + 5°C to 100°C, 2 Blocks Twin Control, 230V	1
1200Z76	3662008	Ambient + 5°C to 200°C, 2 Blocks, 230V	1
1200Z78	3662010	Ambient + 5°C to 200°C, 3 Blocks, 230V	1
1200Z80	3662004	Ambient + 5°C to 100°C, 3 Blocks, 230V	1
1200Z81	3662007	Ambient + 5°C to 100°C, 4 Blocks, 115V	1
1200Z82	3662006	Ambient + 5°C to 100°C, 4 Blocks, 230V	1

### Labconco Protector® Premier® Laboratory Hoods

Protector® Premier® Laboratory Hoods incorporate a sleek interior with a molded one-piece fiberglass liner, the signature feature of Labconco's leading line of fume hoods since 1961. The one-piece liner of specially-formulated, fiberglass-reinforced polyester offers corrosion and fire resistance and easy clean up. Without seams, the interior has fewer points of deterioration for longer life. By-pass airflow design

- Eco-Foil™ Air Foil with aerodynamic Clean-Sweep™ airflow openings
- Glacier white powder-coated steel exterior
- 37.5" (95.3 cm) high sightline from the work surface to header panel



Thomas No.	Mfr. No.	Description	Each
1208W55	100400000	Protector Premier, 4', No Services, No Blower, 115V, 60Hz	1
1208W56	100400002	Protector Premier, 4', Two Services and Duplex, No Blower, 115V, 60Hz	1
1208W73	100600000	Protector Premier, 6', No Services, No Blower, 115V, 60Hz	1
1208W74	100600002	Protector Premier, 6', Two Services and Duplex, No Blower, 115V, 60Hz	1

### Thermo Scientific™- Barnstead MaxQ™ 2000 Digital Platform Shaker

**Microprocessor control  
closely controls time and speed**

Conduct applications such as general mixing, cell cultures, solubility studies, extraction procedures and diagnostic testing with durable, open-air platform Thermo Scientific™ MaxQ™ 2000 and 3000 Benchtop Orbital Shakers. Brushless motor requires no maintenance

- Audible/visual speed alarm prevents shaker from walking
- Lifetime warranty on drive mechanism

Ideal for operation on a bench top, in a standard incubator or in an environmental chamber.



Thomas No.	Mfr. No.	Description	Each
8290F91	SHKE2000	Digital Platform Shaker, Model SHKE 2000, 0.75 Dia., 120V	1

### Ohaus Heavy Duty Orbital Shakers

With load capacities from 35 to 150 lb and over 70 accessory options, OHAUS Heavy Duty Shakers are designed to handle a range of applications.

- Exclusive Accu-Drive shaking system on digital models continuously monitors and maintains shaking speed
- Speed ramping feature slowly increases the speed to desired setpoint to avoid splashing
- Microprocessor displays the last set-point and will restart if power is interrupted.



Thomas No.	Mfr. No.	Description	Each
1158U98	30391307	16 kg Capacity Analog Heavy Duty Orbital Shaker, Model SHHD1619AL, Motion: Orbital 19mm, 120V	1
1158U99	30391802	16 kg Capacity Analog Heavy Duty Orbital Shaker, Model SHHD1619AL, Motion: Orbital 19mm, 230V	1

## Equipment & Instruments *(continued)*

### Thermo Scientific™- Barnstead MaxQ™ Mini 4450 Benchtop Shaker

**Combines benchtop incubated temperatures with an orbital shaker**

- Heavy-duty triple eccentric drive for continuous and uniform agitation even at high speeds
- Temperature range is ambient +5° to 80°C with ±0.5°C uniformity at 37°C
- Compact 11" x 13" footprint requires minimal bench space



Thomas No.	Mfr. No.	Description	Each
8291J74	SHKE4450	MaxQ™ Mini 4000 Dig/Incshak 120V	1

### Thermo Scientific™- Barnstead MaxQ™ 4000 and Refrigerated Environmental Shakers

**Model 4000 Benchtop Shakers**

- Analog or digital units available
- Audible/visual alarms
- Spacious chamber holds six 2L flasks
- Automatically restarts after power interruption
- Accurate regulation of shaker speed from 15-500 rpm (digital); 40-400 rpm (analog)
- LEXAN hood allows unobstructed view of contents



**Refrigerated Environmental Shakers**

- Benchtop or floor models
- Chose between analog and digital operating systems



Thomas No.	Mfr. No.	Description	Each
8291J51	SHKE4000	Digital Benchtop Shaker, Ambient 5 to 60°C, 120V	1
8291J84	SHKE4000-7	Digital Refrigerated Benchtop Shaker, 120V	1

### Hettich Instruments HettCube Incubators (115V)

**Sustainable, ergonomic, high quality**

- Eco-friendly with low power consumption & low global warming potential (GWP)
- Available in (3) sizes: 5.2 cu. ft., 10.9 cu. ft. and 18.3 cu. ft.
- Easily reverse the door-swing
- One degree (+/- 1°) from ambient temp. (non-refrigerated)
- Run-Silent™ Operation (softer than normal conversation)
- Intelligent temperature control with cross directional airflow for maximum heat distribution (no interior fan)
- Self-Close 90°: Door will automatically close at any angle under 90°
- Two (2) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1203R78	64000-01	HettCube 400 10.95 cu. ft.	1
1203R79	64005-01	HettCube 400R 10.95 cu. ft.	1
1203R80	66000-01	HettCube 600 18.36 cu. ft.	1
1203R81	66005-01	HettCube 600R 18.36 cu. ft.	1

*Additional Hettich packages available, please ask your Thomas Scientific Representative.*

### Hettich Instruments ROTINA 380 Centrifuge (115V)

**High capacity, general-purpose, benchtop centrifuge with a small footprint**

- Robust & steady, temperature control system with pre-cool function from -20 to +40°C (optional)
- Max capacity: Up to (4) 290mL
- Max RPM/RCF: 15,000/24,400
- Round bottom, conical, bottles, plates and more
- Run-Silent operation (as quiet as normal conversation)
- Easy-Lift™ / Safety-Lock™ Lid
- Five (5) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1211P75	380CELLCULTURE4	36/16 Places, 15/50mL, 90° Swing-out, 115V	1
1211Q37	380BOTTLE	4 Places, 250mL, 90° Swing-out, 115V	1

### Hettich Instruments ROTOFIX 32A Centrifuge (115V)

**Rugged general-purpose benchtop centrifuge**

- All steel construction
- Max capacity: Up to (4) 100mL or (32) 15mL
- Max RPM/RCF: 6,000/4,226
- Easy-Lift™, Safety-Lock™ Lid
- Run-Silent operation (as quiet as normal conversation)
- Five (5) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1211P71	32ACELLCULTURE4	16/4 Places, 15/50mL, 90° Swing-out, 115V	1
1211P72	32ACELLCULTURE6	6 Places, 15/50mL, 90° Swing-out, 115V	1

INDUSTRIAL / ENVIRONMENTAL

## ROTOFIX 46 CENTRIFUGE

**Hettich**  
LAB TECHNOLOGY

- Temperature control +10°C to +90°C (opt.)
- Universal swing-out rotor for tubes & bottles ranging from 3mL to 290mL
- All-metal containment
- Specialty applications
  - Water in oil
  - Suspension of particulates
  - Dairy
  - Micro-fluidics
- Five (5) year warranty



ASTM	CHROME BATH	SCHLENK	BABCOCK

## Testing

### Thermo Scientific™ Orion™ High Performance Ammonia Electrode

Designed to meet the demanding needs  
of drinking water and wastewater applications

- Accurate results down to 0.01 ppm
- Linear electrode response down to low detection limits
- Response time of 1 minute in sample concentrations of 1 ppm and higher
- New wastewater applications developed using known addition and direct measurement techniques



Thomas No.	Mfr. No.	Description	Each	Pack
1229G33	951214	Loose Membranes	—	20
1229G34	951215	Pre-Assembled Outer Body and Membrane Cap	—	3
1229F31	9512HPBNWP	High Performance Ammonia Electrode	1	—

### Thermo Scientific™ Orion™ Reference Electrodes For ISEs

Mercury-free, Ag-AgCl type, with sleeve junction. Designed for use with Thermo Orion ion-selective electrodes as indicated in respective descriptions; usable also with glass electrodes for pH measurement. Range 10 to 100°C. Length 140 mm, diameter 13 mm. Diameter of mounting cap 16 mm.



Thomas No.	Mfr. No.	Description	Each
4215F10	900100	Reference Electrode, Single Junction	1
4215F20	900001	Refill Solution, 5 x 60 ml	1
4215F60	900200	Reference Electrode, Double Junction	1
4215F70	900002	Filling Solution, 900002, For Half Cell ISE And 4215F60 Reference Inner Chamber	1
4215F75	900003	Filling Solution, 900003, For Reference Electrode 4215F60, Outer Chamber	1

### Thermo Scientific™ Orion™ ROSS™ Ultra™ Premium pH Electrodes

The Orion ROSS pH electrode, which is recognized as the best pH electrode in the world for difficult samples, is now even better. The Orion ROSS Ultra has twice the warranty and greater stability than its predecessor. It uses a unique reference system developed by Thermo Fisher Scientific that offers longer life, greater stability, and fast results, regardless of sample composition or temperature.



Thomas No.	Mfr. No.	Description	Each
1234Y64	8102BNUWP	ROSS Ultra Combination Electrode w/Glass Body, BNC Connector	1
1234Y65	8103BNUWP	ROSS® Ultra pH Electrode w/Glass Body & Semi-Micro Bulb, Waterproof, 1 M Cable	1
1234Y66	8104BNUWP	ROSS® Ultra Combination Electrode w/Glass Body & Rugged Bulb, Waterproof, 1 M Cable	1
1234Y67	8115BNUWP	ROSS® Ultra Electrode w/Epoxy Body, Semi-Micro, Waterproof, 1 M Cable	1
1234Y69	8156BNUWP	ROSS Ultra Combination Electrode w/Epoxy Body, 1 M Cable	1

### Thermo Scientific™ Orion™ ROSS™ Sure-Flow™ pH Electrodes



- Easy cleaning in waste-waters, food samples, colloids, soils and slurries
- Has optimum flow rate for high purity waters, drinking waters and buffers
- Produces fast, stable responses in samples that vary in temperature
- pH range is 0-14 over a temperature range of 0°-100°C

Epoxy Body Combination Electrode recommended for rugged conditions and field use. Epoxy Body Combination Semi-Micro Electrode recommended for small sample volumes and micro/titrations, includes bulb guard. Glass Body Reference Electrode is for all sample types, includes pin-tip connector and 3M KCl filling solution.

Thomas No.	Mfr. No.	Description	Each
1234Y71	8165BNWP	Combination Electrode, Epoxy Body, Waterproof, BNC Connector	1
1234Y72	8172BNWP	Combination Electrode, Waterproof, BNC Connector	1
1234Y73	8175BNWP	Combination Semi-Micro Electrode, BNC	1
1234Y97	9172BNWP	Combination pH Electrode w/Glass Body, Waterproof, BNC Connector, 1 M Cable	1

### Thermo Scientific™ Orion™ Orion® pH Buffers

Orion pH buffers are manufactured under ISO 9000 quality standards. Buffers are color-coded for ease-of-use, packaged with buffer/temperature tables for accurate calibrations and NIST traceability. All-in-One Buffer kit (1233M21) includes pint bottles of 4 (pink), 7 (yellow) and 10 (blue) buffers, electrode storage solution and electrode storage bottle.



Thomas No.	Mfr. No.	Description	Each	Pack
1233M21	910199	All-in-One Buffer Kit	1	—
1226E76	910460	pH 4.01 Buffer, Color Coded Pink, 60mL Bottle	—	5
4120L75	910104	pH 4.01 Buffer, Color Coded Pink, 475mL Bottle	1	—
1226E78	910760	pH 7.00 Buffer, Color Coded Yellow, 60mL Bottle	—	5
4120L80	910107	pH 7.00 Buffer, Color Coded Yellow, 475mL Bottle	1	—
1226E79	911060	pH 10.01 Buffer, Color Coded Blue, 60mL Bottle	—	5
4120L85	910110	pH 10.01 Buffer, Color Coded Blue, 475mL Bottle	1	—

### Thomas® pH Buffer Solutions

Traceable to NIST standards and available in a variety of packaging selections. Provides a tolerance of  $\pm 0.02$  pH at 25°C and the bottle label provides temperature correction data from 0° to 50°C. All Thomas buffers offer improved record keeping and documentation with two-year shelf life (unopened), manufacturing lot codes, expiration out-dates and fill-in-the-blank sections for date received and date opened.



Thomas No.	Description	Each	Case
1182Z13	Buffer Solution, pH 4, Clear, 1 pint (475mL)	1	12
1182Z14	Buffer Solution, pH 4, Clear, 1 quart (950mL)	1	—
1182Z15	Buffer Solution, pH 4, Clear, 5 gallon (19 L)	1	—
1182Z16	Buffer Solution, pH 7, Clear, 1 pint (475mL)	1	—
1182Z17	Buffer Solution, pH 7, Clear, 1 quart (950mL)	1	—
1182Z18	Buffer Solution, pH 7, Clear, 5 gallon (19 L)	1	—

For more information and listings, please visit [thomassci.com](http://thomassci.com)



## Testing *(continued)*

### Thermo Scientific™ Orion™ Ion Selective Electrodes (ISE)

Measurements using an ion selective electrode (ISE) are applicable in virtually every laboratory. ISEs can be used to measure ion concentrations in water, food, pharmaceuticals and biological samples. Ion selective electrodes can be used as endpoint indicators or to perform direct measurement and incremental techniques.



Thomas No.	Mfr. No.	Description	Each
1234Z11	9617BNWP	Orion Chloride Combination Electrode, BNC Connector	1
1234Z24	9770BNWP	Orion Residual Chlorine Combination Electrode, BNC Connector	1
1234Z09	9609BNWP	Orion Fluoride Combination Electrode, BNC Connector	1
1234Z19	9707BNWP	Orion Nitrate Combination Electrode, BNC Connector	1
1234Z10	9616BNWP	Orion Silver / Sulfide Combination Electrode, BNC Connector	1

### Thermo Scientific™ Orion™ Nitrate ISE Replacement Module

Polymer membrane electrodes measure nitrate concentration in the range of 14,000 to 0.1 ppm in soils, plant materials, fertilizers, pickling baths and other aqueous solutions. Other uses listed in Standard Methods.

- EPA approved for NIPDWR compliance monitoring
- Optimal temperature range 0 to 40° C



Thomas No.	Mfr. No.	Description	Each
4210S03	970701	Replacement Nitrate Module for 9707BNWP Electrode	1

### Thermo Scientific™ Orion™ ROSS™ Sure-Flow™ Sodium Electrodes

Allows sodium in aqueous solutions to be measured quickly, accurately, and economically. With its unique internal system, the ROSS electrode provides faster response, greater stability and accuracy than can be obtained from conventional sodium electrodes.



Thomas No.	Mfr. No.	Description	Each
1234Y74	8611BNWP	ROSS Combination Sodium Electrode, BNC Connector	1

### Thermo Scientific™ Orion™ 3-in-1 Triode™ Probes

The Orion Triode 3-in-1 Probe is a practical solution for field and plant use. The pH/Reference/ATC probes are all in one body, so pH and temperature can be measured simultaneously. You get portability and accuracy in one package.



Thomas No.	Mfr. No.	Description	Each
1234Y83	9107BNMD	Orion Triode pH/ATC Electrode with Epoxy Body, BNC and Mini DIN Connectors	1

### Thermo Scientific™ Orion™ Sure-Flow™ Ag/AgCl pH electrodes

Ideal for all routine pH measurements. A large variety of quality electrodes for a wide range of applications. Includes specialty pH electrodes for unique or challenging pH measurements.



Thomas No.	Mfr. No.	Description	Each
1234Y96	9165BNWP	Sure-Flow Combination pH Electrode w / Epoxy Body, BNC Connector, 1 M Cable	1
1234Y97	9172BNWP	Sure-Flow Combination pH Electrode w / Glass Body, Waterproof, BNC Connector, 1 M Cable	1

### Thermo Scientific™ Orion™ Dissolved Oxygen Probes

Durable and accurate DO probe for the lab or field. Cable lengths 1.5 - 20m. Compatible with Thermo Scientific™ Orion™ Star™ A series meters. Mini DIN connector.



Thomas No.	Mfr. No.	Description	Each
1234K48	083005MD	Orion Dissolved Oxygen Epoxy Probe, Mini DIN connector, 1.5M Cable	1

### Thermo Scientific™ Orion™ DO Probe Maintenance Kit

Maintenance Kit includes electrolyte solution (2 oz.), two membrane caps and a polishing disk.



Thomas No.	Mfr. No.	Description	Each
7238F56	080513	Orion Polarographic DO Probe Maintenance Kit	1

### Thermo Scientific™ Orion™ RDO™ Optical DO Probes

- No membranes to change - just replace the sensor once a year
- Probe stores wet or dry



Thomas No.	Mfr. No.	Description	Each
1229X52	087010MD	RDO Optical DO Probe, 3M Cable, Stainless Steel Guard, Optical Cap and Calibration Sleeve	1

### Thermo Scientific™ Orion™ DuraProbe™ 4-Cell Conductivity Probe

DuraProbe probes are designed for the highest accuracy under demanding field and plant conditions. This design compensates for electrode fouling, cable and connector resistance, and polarization errors. A choice of glass/platinum, epoxy/graphite, or stainless steel ensure compatibility with most samples. These probes are temperature compensated and compatible with Thermo Scientific™ Orion™ Star™ A series meters.



Thomas No.	Mfr. No.	Description	Each
1234K43	013010MD	Conductivity Probe, Epoxy/Graphite, K=0.475, 3 M Cable, Mini DIN Connector	1

## Testing (continued)

**Thermo Scientific™ Orion™  
AQUAfast™ AQ3010  
Turbidity Meter**

- Ergonomic IP67 turbidity meter for lab or field use
- Uses Nephelometric principle with 90° detection
- In many locations a separate light cap or shield is not needed
- Meets ISO 7027 and offers consistent IR LED light source for greater accuracy
- No mixing or diluting with EPA-approved polymer bead primary standards for faster calibration



Thomas No.	Mfr. No.	Description	Each
1224B94	AQ3010	Orion Aquafast AQ3010 Turbidity Meter Kit	1

**LaMotte  
2020we Portable  
Turbidity Meter**

**Your clear choice for turbidity measurement in the field or in the lab.**

New waterproof version is ideal for field or lab use. The unit is rated IP67 and features lithium rechargeable batteries, a backlit display, USB port and seven language options. The 2020we complies with the EPA 180.1 standard using a tungsten light source protected by a unique waterproof chamber with a removable cup. Includes waterproof carrying case, 6 sample vials and 0, 1 and 10 NTU standards.



Thomas No.	Mfr. No.	Description	Each
1222K67	1970-EPA	2020we Turbidity Meter	1

**Stuart  
SA8 Vortex Mixer**

- Variable speed control between 200 and 2500 rpm
- Intermittent or continuous mode
- Stable low profile body
- Robust die-cast construction



Thomas No.	Mfr. No.	Description	Each
1227Y78	SA8	Vortex mixer, variable speed, 90-250v, 50/60Hz	1

**Benchmark  
BenchMixer™**

With advanced Q-Drive technology, the BenchMixer™ provides smooth instant mixing of the largest sample sizes, including full 50mL tubes. Features include: "no-walk" suction feet, cold room/incubator compatibility and spill-proof electronic controls.



Thomas No.	Mfr. No.	Description	Each
1227U58	BV1000	BenchMixer Vortexer, 115V	1
1187Q17	BV1000-E	BenchMixer Vortexer, 230V (European Plug)	1
1187Q18	BV1000-E-UK	BenchMixer Vortexer, 230V (UK Plug)	1
1227U59	BV1000-FLAT	Vortexer Flat Head	1
1227U60	BV1000-COMBO	Vortexer Combo Head	1
1213F86	BV1000-H15	Horizontal head attachment, 12 x 1.5mL tubes	1
1213F87	BV1000-H150	Horizontal head attachment, 4 x 15mL tubes	1
1213F88	BV1000-H500	Horizontal head attachment, 2 x 50mL tubes	1

**Benchmark  
Mortexer™ Vortexer**

- Unique Multi-Head™ for general purpose vortexing PLUS holds up to eight microtubes (Patent Pending)
- Powerful motor for INSTANT vortexing
- Continuous or "touch" operation
- Q-Drive™ dynamic balancing system
- Variable speed from 200 to 3400 rpm
- Wide variety of accessories



Thomas No.	Mfr. No.	Description	Each
1213F84	BV1005	Mortexer™ Vortexer 115V	1

**Thermo Scientific™- Barnstead  
Micropure Systems**

- Backlit display tilts for easy viewing
- Variable speed dispensing
- Optional integrated 6L feed water reservoir so you can place the system without direct access to a water line



Thomas No.	Mfr. No.	Description	Each
1209T50	50132373	MicroPure UV Systems include an ultrapure polisher cartridge, sterile 0.2 µm filter, pressure regulator, and UV lamp, 120-240V, 50/60Hz	1
1209T48	50132370	MicroPure UV/UF Systems include an ultrapure polisher cartridge, sterile 0.2 µm filter, pressure regulator, UV lamp, and ultrafilter, 120-240V, 50/60Hz	1

**Thermo Scientific™- Barnstead  
GenPure Pro**

The GenPure Pro water purification system makes up to 200L/day of Type 1 water from a pretreated feedwater supply. The unit ships complete with all necessary consumables and accessories so that the unit can be installed and running the day it is received.



Thomas No.	Mfr. No.	Description	Each
1204P00	50131952	GenPure Pro UV, 120/240V, 50/60Hz	1
1204P02	50131950	GenPure Pro UV/UF, 120/240V, 50/60Hz	1
1204P03	50131948	GenPure Pro UV-TOC, 120/240V, 50/60Hz	1
1204P04	50131922	GenPure Pro UV/UF-TOC, 120/240V, 50/60Hz	1

**Thermo Scientific™- Barnstead  
Smart2Pure Systems**

- Based on your requirements, choose from capacities of 3, 6 or 12L/hr
- Lasting economy
- Water purification progresses through independent cartridges with Aquastop quick connects for fast replacement.
- Module 1 - Combination of pretreatment and the reverse osmosis membrane
- Module 2 - Polishing cartridge contains high-quality ultrapure resin for consistent purity and long cartridge life



Thomas No.	Mfr. No.	Description	Each
1209U01	50129885	Smart2Pure UV 6L/hr Systems include a RO/pretreatment cartridge, an ultrapure polisher cartridge, sterile 0.2 µm filter, 6L internal tank, vent filter for tank, pressure regulator, and UV lamp, 120-240V, 50/60Hz.	1
1209U02	50129887	Smart2Pure UV/UF 6L/hr Systems include a RO/pretreatment cartridge, an ultrapure polisher cartridge, sterile 0.2 µm filter, 6L internal tank, vent filter for tank, pressure regulator, UV lamp, and ultrafilter, 120-240V, 50/60Hz.	1

## Testing *(continued)*

### CHEMetrics Ampules for Colorimetric Analysis

Chemistry based on APHA, ASTM  
and US EPA approved testing procedures

- No mixing, measuring or mess
- Fast and accurate
- Ideal for field or lab use

#### CHEMetrics® Self-Filling Ampules for Colorimetric Analysis

- Designed for maximum simplicity and accuracy



Thomas No.	Mfr. No.	Description	Each
9866E05	K-1510	Ammonia 30 Chemets 0-10 UN1760	1
9866E07	R-1501	Ammonia 30 0-100 Refill Kits UN1760	1
9866E11	R-1501D	Ammonia Refill w / Diluter 0 UN1760	1
9866E19	K-2500	Chlorine 30 Chemets DPD	1
9866E21	R-2500	Chlorine DPD Refill Kit	1
9866E23	K-2505	Chlorine DDPD 30 Chemets	1
9866E25	R-2505	Chlorine Ddp Refill Kit	1
9866E35	R-9400	Detergents Test Refill Pk / Reag	1
9866E47	R-5510	Hydrogen Peroxide Refill Ampoules	1
9866E49	K-6010	Iron Test Kit 0-1 + 1-10 ppm	1
9866E61	K-7511	Dissolved Oxygen 30 ULR Chemets Rhodazne 0-20	1
9866E65	K-7540	Dissolved Oxygen 30 Chemets Rhodazine 0-40	1
9866E69	K-7599	Dissolved Oxygen 30 Chemets Rhodazne 0-100	1
9866E71	R-7540	Dissolved Oxygen Rhodazine Refill Kit	1
9866E73	K-7501	Dissolved Oxygen 30 Chemets Rhodazine 0-1	1
9866E75	R-7501	Dissolved Oxygen Rhodazine 0-1 Refill Kit	1
9866E77	K-7512	Dissolved Oxygen 30 Chemets Indigo 1-12	1
9866E79	R-7512	Dissolved Oxygen Indigo 1-12 Refill Kit	1
9866E89	R-8012	Phenols Refill	1
9866F03	K-9510	Sulfide 30 Chemets UN1760	1
9866F05	R-9510	Sulfide Refill Kit UN1760	1
9866F07	K-9602	Sulfite Titrets Kit UN3316	1

### labForce (a Thomas Scientific Brand) JC Series Microscopes

Versatile Modular upright microscope system,  
JC Series, with optical excellence from Planachro  
Infinity optics for biological and clinical research,  
10X Eye pieces, 22mm, mechanical stage, power  
cord, dust cover, 5 Year Manufacturer's Warranty.



Thomas No.	Description	Each
1191D81	Microscope, Binocular, 4x, 10X, 40X & 100Xoil	1
1191D82	Microscope, Trinocular, 4x, 10X, 40X & 100Xoil	1
1220Z56	Upright Phase Contrast Compound Microscope, Binocular, LED Illumination; Phase Contrast objectives: 10X, 20X, 40X 100Xoil	1
1220Z57	Upright Phase Contrast Compound Microscope, Trinocular, 20W Halogen or LED Illumination; Phase Contrast objectives: 10X, 20X, 40X 100Xoil	1

### labForce (a Thomas Scientific Brand) Stereo Zoom Microscopes, 6.5X-45X

Stereo Zoom Microscope, 6.5X-45X  
magnification range with 10X Eye pieces  
FN 22mm, lots to see with 22mm field  
of view, comfortable room to work  
and 4 inch working height.



Thomas No.	Description
1191D85	Binocular, 6.5X-45X, Illuminated Stand, Dual Halogen
1191D86	Binocular, 6.5X-45X, Illuminated Stand, Halogen/Fluoresce
1191D87	Binocular, 6.5X-45X, Post Stand- No illumination
1191D88	Binocular, 6.5X-45X, Boom Stand- No illumination
1191D89	Trinocular, 6.5X-45X, Illuminated Stand, Dual Halogen
1191D90	Trinocular, 6.5X-45X, Illuminated Stand, Halogen/Fluorescent
1191D91	Trinocular, 6.5X-45X, Post Stand- No illumination
1191D92	Trinocular, 6.5X-45X, Boom Stand- No illumination

### labForce Microscopes for Wastewater/Filter Particle Analysis

- Assembled in the US  
for over 15 years
- Durable, reliable instruments  
with a 5 year warranty
- Complete packages including  
Phase Contrast for wastewater  
analysis and Stereo Zoom for  
filter particle examination
- Excellent quality and support.  
We answer your questions and  
respond to your needs
- Camera ready modules allow  
fast, easy documentation,  
analysis or presentation



**labForce**  
powered by Thomas Scientific

Thomas No. 1191D85

Check out our new **labForce**  
**Microscopes** at [thomassci.com](http://thomassci.com)  
Available in: Upright, compound,  
inverted compound and stereo models



## Liquid Handling

### Foxx Life Sciences

#### EZgrip™ Carboy

- VersaCap™ technology provides the flexibility of interchangeable top connections
- Large, molded-in graduation marks with  $\pm 5\%$  accuracy
- Autoclavable spigot and VersaBarb™ technology
- EZfil™ 120 mm wide-mouth for easy filling and cleaning



Thomas No.	Mfr. No.	Description	Each	Pack
1198H99	157-0111-OEM	Carboy, Copolyester, 2.5L, VersaCap 80	1	—
1198J00	157-1111-OEM	Carboy, Copolyester, 5L, No Spigot, VersaCap 80	1	—
1198J01	157-2111-OEM	Carboy, Copolyester, 10L, No Spigot, VersaCap 80	1	—
1198J02	157-3121-OEM	Carboy, Copolyester, 20L, No Spigot, VersaCap 120	1	—
1198H77	152-0111-OEM	Carboy, HDPE, 2.5L, VersaCap 80	1	—
1198H79	152-1211-OEM	Carboy, HDPE, 5L, Spigot, VersaCap 80	1	—
1198H81	152-2211-OEM	Carboy, HDPE, 10L, Spigot, VersaCap 80	1	—
1198H83	152-3221-OEM	Carboy, HDPE, 20L, Spigot, VersaCap 120	1	—
1198H85	152-5221-OEM	Carboy, HDPE, 40L, Spigot, VersaCap 120	1	—
1198H87	155-0111-OEM	Carboy, PP, 2.5L, VersaCap 80	1	—
1198H89	155-1211-OEM	Carboy, PP 5L Spigot VersaCap 80	1	—
1198H92	155-2211-OEM	Carboy, PP, 10L, Spigot, VersaCap 80	1	—
1198H94	155-3221-OEM	Carboy, PP, 20L, Spigot, VersaCap 120	1	—
1198H97	155-5221-OEM	Carboy, PP, 40L, Spigot, VersaCap 120	1	—
1198J57	225-1001-RLS	Spigot	—	2

### Globe Scientific Diamond Advance™ Adjustable Volume Pipettors

- Fully autoclavable and UV resistant
- 3 year warranty
- Light-weight and ergonomic design
- Easy-to-clean and calibrate in house
- Large 4 digit display window
- Calibrated in an ISO 17025 accredited laboratory



Thomas No.	Mfr. No.	Description	Each
1213E39	3341-1	Diamond Advance™ Pipettor, 0.1 - 2.5uL	1
1213E40	3341-10	Diamond Advance™ Pipettor, 0.5 - 10uL	1
1213E41	3341-20	Diamond Advance™ Pipettor, 2 - 20uL	1
1213E42	3341-50	Diamond Advance™ Pipettor, 5 - 50uL	1
1213E43	3341-100	Diamond Advance™ Pipettor, 10 - 100uL	1
1213E44	3341-200	Diamond Advance™ Pipettor, 20 - 200uL	1
1213E45	3341-1000	Diamond Advance™ Pipettor, 100 - 1000uL	1
1213E46	3341-5000	Diamond Advance™ Pipettor, 500 - 5000uL	1
1213E47	3341-10000	Diamond Advance™ Pipettor, 1 - 10mL	1

### Globe Scientific Filter Pipette Tips

- Manufactured in a cleanroom using fully automated equipment
- Certified free from Human DNA, DNase, RNase, Pyrogens and PCR Inhibitors
- Produced from medical grade virgin polypropylene (PP)
- All tips are graduated for accurate measurements
- Universal fit design provides an airtight fit on most brands of pipettors



Thomas No.	Mfr. No.	Description	Pack
1196U28	150800	Low Retention Filter Tip, 0.1 - 10uL, 31mm, Natural, Sterile, Racked	960
1196U29	150810	Low Retention Filter Tip, 1 - 20uL, 54mm, Natural, Sterile, Racked	960
1196U30	150814	Low Retention Filter Tip, 1 - 50uL, 54mm, Natural, Sterile, Racked	960
1196U31	150815	Low Retention Filter Tip, 1 - 100uL, 54mm, Natural, Sterile, Racked	960
1196U32	153820	Low Retention Filter Tip, 1 - 200uL, 54mm, Natural, Sterile, Racked	960
1196U33	150835	Low Retention Filter Tip, 1 - 1000uL, 84mm, Natural, Sterile, Racked	576

### BrandTech® Dispensette® S Digital Bottletop Dispensers

The new Dispensette® S builds on a half century of BRAND® bottletop dispenser experience. It features a floating piston design with even lower operating forces, a new safety discharge system, and an improved sealing system, eliminating sealing washers for even better reliability. Designed to attach directly to your reagent bottle eliminating poured transfer. In addition to the product improvements, a new 0.1-1mL size is available.



Thomas No.	Mfr. No.	Description	Each
1183C55	4600310	Dispensette S, Digital w/ Standard Valve, 0.1-1mL	1
1183C56	4600320	Dispensette S, Digital w/ Standard Valve, 0.2-2mL	1
1183C57	4600330	Dispensette S, Digital w/ Standard Valve, 0.5-5mL	1
1183C58	4600340	Dispensette S, Digital w/ Standard Valve, 1-10mL	1
1183C59	4600350	Dispensette S, Digital w/ Standard Valve, 2.5-25mL	1
1183C60	4600360	Dispensette S, Digital w/ Standard Valve, 5-50mL	1

### Labnet BioPette™ Plus Four Pack Starter Kit

The Biopette™ Plus Four Pack Starter Kit is a complete liquid handling package including everything needed to get started with accurate and reproducible pipetting.

- Exceptional Value
- Includes Four Biopette™ Plus Pipettes
- BioFree™ Pipette Tips, Carousel Stand and Calibration Tool also included

Unlike many common liquid handling starter kits that include 3 pipettes, the Biopette™ Plus 4-Pack Starter Kit includes four pipettes covering a wide volume range of 0.5uL to 1000uL (0.5 to 10uL, 2.0 to 20uL, 20 to 200uL and 100 to 1000uL). The Biopette™ Plus 4-Pack Starter Kit also includes three racks of Labnet's new BioFree™ Pipette Tips and a six position carousel stand.



Thomas No.	Mfr. No.	Description	Each
1229E91	P3942-SK4	BioPette Plus Four Pack Starter Kit	1

# Environmental *(continued)*

## Liquid Handling *(continued)*

### Thomas® Transfer Pipets

- Non-toxic and chemically inert to biological fluids and most acids
- Can be heat sealed to use for liquid storage or transport
- Pipets can be frozen in liquid nitrogen
- Non-slippery – easy-to-grip with gloves
- Temperature range: -196°C to 90°C
- Can be gas (EtO) sterilized



Produced from a custom grade of low-density polyethylene (LDPE), these unbreakable one-piece pipets are used to draw and dispense liquids in controlled, reproducible drop sizes.

Thomas No.	Description	Case
1227W97	7 mL, General Purpose	5000
1227W93	5 mL, Large Bulb, 0.25 mL Graduations to 1 mL	5000
1227W90	7 mL, Large Bulb, 0.5 mL Graduations to 3 mL	5000
1227W96	8 mL, General Purpose, Large Bulb	4000
1227W94	3 mL, Small Bulb, 0.25 mL Graduations to 1 mL	5000
1227W98	6 mL, Extra Long (9")	5000
1227W91	4.5 mL, Narrow Stem	5000
1227W92	1.5 mL, Mini, 0.1 mL Graduations to 0.3 mL	5000
1227W95	5 mL, 0.5 mL Graduations up to 2 mL	5000
1227W99	23 mL, Extra Long (12")	1000
1227W87	1.5 mL, Extended Fine Tip, Small Bulb	3200
1227W88	5.8 mL, Fine Tip, Standard	5000
1227W89	8.7 mL, Fine Tip, Large Bulb	4000

### Hirschmann Solarus Digital Burettes

Integrated solar panels power electronic components and display

- Available in 10, 20 and 50 mL
- Volume accuracy:  $\pm 0.2\%$
- Head rotates 360°
- Serial bi-directional RS-232 interface



High-grade solar panels work even in limited lighting conditions. The handwheels have a soft-touch surface. Quick-Cal function allows individual calibrations for user-specific applications. The large easy-to-read display eliminates meniscus reading errors while showing volume range, as well as showing if the unit is set to fill or titrate. Reagent recirculation system eliminates reagent loss. All valves are interchangeable. Luer-Lock connection is provided for filter or dry tube. All components that come in contact with media are autoclavable.

Thomas No.	Mfr. No.	Description	Each
1221U68	9392010	SOLARUS, 10mL	1
7755T80	9392020	SOLARUS, 20mL	1
7755T85	9392050	SOLARUS, 50mL	1

solarus®

HiClass in  
digital titration

- Power supplied by a solar cell
- Individual calibration of user-specified adaptations with "Quick-Cal"
- Media recirculating system for simple and rapid venting without reagent loss
- Serial bidirectional interface (RS 232 and USB)
- Handwheels with soft touch surface

HIRSCHMANN®



Please visit [thomassci.com](http://thomassci.com), Search: Hirschmann

## Safety

### Alpha Pro Tech Critical Cover® AquaTrak® Shoe and Boot Covers

- Sonic Welded, Seamless Sole, Boot Covers feature fluid impervious material and construction
- Ankle ties provide snug fit and security
- Seamless sole provides comfort and traction
- Serged elastic top ensures good closure and support



Thomas No.	Mfr. No.	Description	Case
1230R16	BT-91412-B	Ankle High Boot Covers, fluid impervious, serged seam elastic top, ankle ties, seamless sole, sonic welded seams, blue, Univ	200
1230R17	BT-91413-B	Ankle High Boot Covers, fluid impervious, serged seam elastic top, ankle ties, seamless sole, sonic welded seams, blue, XL	200

For additional Safety Items, see [thomassci.com/safety](http://thomassci.com/safety)

Can't find what you are looking for?  
Visit [thomassci.com](http://thomassci.com) or ask your Thomas Scientific Representative.

*We are here to help!*

**Safety** (continued)

### Alpha Pro Tech Critical Cover® ComforTech® Coveralls

Deliver excellent protection from particles, biologicals and many fluids

- Ultra low particle count
- Material is static dissipative



Thomas No.	Mfr. No.	Description	Case
1223Q04	CV-J4022-1	Coveralls, elastic wrist and ankle, serged seams, white, S	25
1230P03	CV-J4022-2	Coveralls, elastic wrist and ankle, serged seams, white, M	25
1230P04	CV-J4022-3	Coveralls, elastic wrist and ankle, serged seams, white, L	25
1230P05	CV-J4022-4	Coveralls, elastic wrist and ankle, serged seams, white, XL	25
1230P06	CV-J4022-5	Coveralls, elastic wrist and ankle, serged seams, white, 2X	25
1230P07	CV-J4022-6	Coveralls, elastic wrist and ankle, serged seams, white, 3X	25
1230P08	CV-J4022-7	Coveralls, elastic wrist and ankle, serged seams, white, 4X	25

### Microflex MidKnight™ Black Nitrile Gloves

Offers the superior combination of durability and protection against day-to-day hazards in a comfortable nitrile glove

- Powder-free
- Fully textured for enhanced tactile sensitivity and a consistent grip



Thomas No.	Mfr. No.	Description	Pack	Case
1229F24	MK-296-XS	Gloves, Black Nitrile, Extra Small	100	1000
1229F25	MK-296-S	Gloves, Black Nitrile, Small	100	1000
1229F26	MK-296-M	Gloves, Black Nitrile, Medium	100	1000
1229F27	MK-296-L	Gloves, Black Nitrile, Large	100	1000
1229F28	MK-296-XL	Gloves, Black Nitrile, Extra Large	100	1000
1229F29	MK-296-XXL	Gloves, Black Nitrile, 2X-Large	100	1000

### Microflex DuraFlock™ Nitrile Gloves

- 8 mil nitrile, 25% thicker than standard disposable gloves
- 100% nitrile, latex-free
- Increased durability and superior protection
- Comfortable to wear for extended periods and reduces hand fatigue
- Exclusive ultra-thin, moisture-absorbing flock-lining keeps hands dry
- Fully-textured for a firm, reliable grip



Thomas No.	Mfr. No.	Description	Pack	Case
1227N14	DFK-608-S	Gloves DuraFlock™, Nitrile, Small	50	500
1227N15	DFK-608-M	Gloves DuraFlock™, Nitrile, Medium	50	500
1227N16	DFK-608-L	Gloves DuraFlock™, Nitrile, Large	50	500
1227N17	DFK-608-XL	Gloves DuraFlock™, Nitrile, X-Large	50	500
1227N18	DFK-608-XXL	Gloves DuraFlock™, Nitrile, 2X-Large	50	500

### North by Honeywell Laboratory First Aid Kit

- (6) Burn Jel®, 1/8 oz. pouch
- (10) Antiseptic wipes, BZK
- Water Jel® burn dressing, 4" x 4"
- (6) Adhesive bandage, XL, plastic
- (16) Adhesive bandage, 1" x 3", plastic
- (4) Gauze pads, 3" x 3", sterile
- Compress, 4" offset
- Triangular bandage, non-sterile
- Eyewash with (4) eye pads and strips
- Instant Cold Pack
- (2) Adhesive tape, 1/2" x 2-1/2 yd.
- Forceps and scissors
- (2) Nitrile gloves, medical grade
- Poison control directory



Thomas No.	Mfr. No.	Description	Each
1215E22	019750-0034L	Laboratory First Aid Kit	1

### Thomas® Thomas Glass Disposal Boxes

Safely handle broken glass

- Sturdy corrugated cardboard
- 2 mil thick polypropylene liner
- Two models: bench and floor



Thomas No.	Description	Pack
1236E00	Glass Disposal Box, Floor	6
1236E01	Glass Disposal Box, Bench	6

## Sample Containers

### Starplex Scientific VersaTube™ Container

A unique, patented tube with attached cap - simplifying digestion analysis and saving you money!

This versatile disposal tube can also be used for other sample collection, storage and experimental purposes.

- Unique integrated cap and vial
- Ability to vent samples with the hinged cap; no watch glass required
- Certified accuracy of graduations (Class A) and trace metal levels
- Heat resistant polypropylene homopolymer
- Certificate of Analysis in each case
- Etched cap surface for writing
- Compatible with most digestion blocks
- Cap closed when received; no contamination concerns



Thomas No.	Mfr. No.	Description	Case
1218F94	VT502	VersaTube™ Container, 50mL	500

For additional Sample Containers, visit [thomassci.com](http://thomassci.com)  
Keyword: Sample Container



## Sample Containers *(continued)*

J.G. Finneran

### Clear Glass Straight Sided Wide Mouth Jars

Ideal for use in soil, sediment and sludge sampling. Preassembled with .015" PTFE or F217 lined closed top white polypropylene closures. Available in standard, precleaned or precleaned/certified in accordance with recommended E.P.A. protocol. Tall also available.



Thomas No.	Mfr. No.	Description	Pack
1204Y18	9-180	2 oz., 60mL Clear Glass Short, 53-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
1204Y19	9-181	4 oz., 125mL Clear Glass Short, 58-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
1204Y20	9-182	8 oz., 250mL Clear Glass Short, 70-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
1204Y21	9-183	16 oz., 500mL Clear Glass Short, 89-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	12
1204Y22	9-184	32 oz., 1000mL Clear Glass Short, 89-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	12

More sizes available at [thomassci.com](http://thomassci.com)

### DWK Life Sciences (Kimble) Short/Tall Form High Precision Specific Gravity Hydrometers

Hydrometers are used to determine the specific gravity of a liquid. Consists of a long glass tube containing a ballast at the base of the float bulb and graduations on the stem. The ballast is made from steel pellets free from lead and mercury. With over half of the Kimble Chase hydrometer products falling into this category, this is the most common hydrometer classification. Specific gravity hydrometers are available in a variety of graduation ranges and overall lengths.



Thomas No.	Mfr. No.	Description	Each
<b>Short Form</b>			
1188G13	52112-0809	SG 0.820-0.890	1
1188G14	52112-0909	SG 0.880-0.950	1
1188G15	52112-0910	SG 0.940-1.010	1
1188G16	52112-1011	SG 1.000-1.070	1
1188G17	52112-1111	SG 1.060-1.130	1
1188G18	52112-1112	SG 1.120-1.190	1
1188G19	52112-1113	SG 1.180-1.250	1
1188G20	52112-1213	SG 1.240-1.310	1
<b>Tall Form</b>			
1188G01	52112-1213	G 0.760-0.830	1
1188G02	52111-0809	SG 0.820-0.890	1
1188G03	52111-0810	SG 0.880-0.950	1
1188G04	52111-0910	SG 0.940-1.010	1
1188G05	52111-1011	SG 1.000-1.070	1
1188G06	52111-1111	SG 1.060-1.130	1
1188G07	52111-1112	SG 1.120-1.190	1
1188G08	52111-1212	SG 1.180-1.250	1
1188G09	52111-1213	SG 1.240-1.310	1
1188G10	52111-1314	SG 1.300-1.370	1
1188G11	52111-1414	SG 1.360-1.430	1
1188G12	52111-1415	SG 1.420-1.490	1

## DWK Life Sciences (Kimble)

### Precision Specific Gravity Hydrometers

Hydrometers are used to determine the specific gravity of a liquid. Consists of a long glass tube containing a ballast at the base of the float bulb and graduations on the stem. The ballast is made from steel pellets free from lead and mercury. With over half of the Kimble Chase hydrometer products falling into this category, this is the most common hydrometer classification. Specific gravity hydrometers are available in a variety of graduation ranges and overall lengths.



Thomas No.	Mfr. No.	Description	Each
1188F92	52110-0708	SG 0.700-0.810	1
1188F93	52110-0809	SG 0.800-0.910	1
1188F94	52110-0910	SG 0.900-1.000	1
1188F95	52110-1012	SG 1.000-1.220	1
1188F96	52110-1214	SG 1.200-1.420	1
1188F97	52110-1416	SG 1.400-1.620	1
1188F98	52110-1618	SG 1.600-1.820	1
1188F99	52110-1820	SG 1.800-2.000	1
1188G00	52110-2000	Set of 8 Precision SG Hydrometers, 0.695-2.000	1



## MAKE THE CLEAR CHOICE WITH KIMBLE HYDROMETERS

Accurately measure the specific gravity of your water, waste water, seawater, or other environmental samples with Kimble brand hydrometers.

- Free of toxic heavy metals
- Made in the USA
- Accuracy meets or exceeds the requirements of ASTM standard E100
- Calibrated in accordance with ASTM E126 with reference standards traceable to NIST



**Full DWK Portfolio**  
found at [thomassci.com](http://thomassci.com)

## Sample Prep

### Thomas® Thomas Wiley® Mini Cutting Mills

**NEW and improved! The Thomas Wiley® Mini-Mill is our smallest cutting mill - but still Wiley® tough**



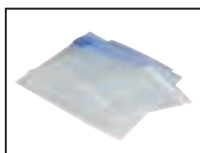
The Wiley® Mini Mill is an all steel Benchtop Cutting Mill featuring a 1.575" diameter sealed cutting chamber with two adjustable stationary blades and a rotating cutting head with four cutting edges that revolve at high speed to produce a shearing action which minimizes heat build-up. Samples introduced through the hopper are swept around by the rotor until they are cut to sufficient fineness to pass through sieve.

Thomas No.	Description	Each
<b>1171H10</b>	Wiley® Mini Cutting Mill, 115V 50/60Hz	1
<b>1173U48</b>	Wiley® Variable Speed Mini Cutting Mill, 115/230V 50/60Hz (Dual Voltage)	1

## Sample Storage Bags

### Dynalon Zipper Seal Bags, LDPE

These heavyweight (2 mil) polyethylene bags are ideal for collecting, storing and protecting laboratory specimens and samples easily and conveniently. Sealed bags keep dust out. Not suggested for use with liquids. Many uses in the lab and industry. Bags lock easily and securely with the zipper locking feature. No printing on the bag allows for easier labeling and marking.



Thomas No.	Mfr. No.	Description	Case
<b>1216B43</b>	628325	Bag Zipper Seal LDPE, 2 mm, 2 x 3"	1000
<b>1216B44</b>	628335	Bag Zipper Seal LDPE, 2 mm, 3 x 5"	1000
<b>1216B45</b>	628345	Bag Zipper Seal LDPE, 2 mm, 4 x 6"	1000
<b>1216B46</b>	628355	Bag Zipper Seal LDPE, 2 mm, 5 x 8"	1000

### Bel-Art Products Scienceware® Biohazard Disposal Bags with Indicator

Bright red polypropylene bags include black biohazard symbol and precautionary procedures printed in four languages (English, Spanish, French, German) for added safety.

- Sterilization patch darkens when subjected to steam sterilization
- High temperature steam autoclavable to 135°C (275°F)
- Pass ASTM 1922 Tear Resistance and ASTM 1709 Dart Impact Tests
- Made in the USA



Thomas No.	Mfr. No.	Description	Case
<b>1304Q63</b>	F131641419	Bag, Wr, Biohazard Disposal, 14 X 19, PP, Red	200
<b>1304Q65</b>	F131641923	Bag, Wr, Biohazard Disposal, 19 X 23, PP, Red	200
<b>1304Q67</b>	F131642535	Bag, Wr, Biohazard Disposal, 25 X 35, PP, Red	200

## Sample Transport

### Polar Tech Thermo Chill™ Nylon Transport Carriers

Ideal for the transport of temperature sensitive serums, tissue samples, lab specimens, blood field samples and medical supplies.

- Thick wall 1-1/2" EPS foam insulation (reusable year after year)
- Light weight
- Optimum temperature retention



Thomas No.	Mfr. No.	Description	Each
<b>1203F65</b>	229/T27N	Thermo Chill™ Nylon Transport Carrier, Blue	1

### Polar Tech ICE-BRIX® and XTREME BRIX Cold Packs

ICE-BRIX® is the ultimate in refrigerant cold packs.

Their unique features include:

- Long lasting cold
- Efficient transfer of energy
- Leakproof
- Reusable



Thomas No.	Mfr. No.	Description	Case
<b>1203F62</b>	IB 6	1 case of 48 ICE-BRIX IB 6	48
<b>1206G93</b>	IB 8	1 case of 36 ICE-BRIX IB 8	36
<b>1182K30</b>	IB 8	1 case of 72 ICE-BRIX IB 8	72
<b>1206G94</b>	IB 12	1 case of 24 ICE-BRIX IB 12	24
<b>1206G95</b>	IB 16	1 case of 18 ICE-BRIX IB 16	18
<b>1206G96</b>	IB 24	1 case of 12 ICE-BRIX IB 24	12
<b>1206G97</b>	IB 48	1 case of 24 XTREME BRIX XB 12	6

### Polar Tech RE-FREEZ-R-BRIX Foam Refrigerant

RE-FREEZ-R-BRIX™ is a block of rigid foam that holds its shape frozen or thawed and is reusable. Non-toxic, reusable, sealed in a heavy plastic pouch, maintains shape. Prevents thawing – Keeps frozen products chilled for an extended period of time. Protects against freezing – When packaged in properly insulated containers, warmed RE-FREEZ-R-BRIX™ release heat, keeping perishables from freezing. Protects from warming – Keeps perishables requiring a temperature range of 32°F to 60°F at a safe, uniform cool temperature for over 14 days.



Thomas No.	Mfr. No.	Description	Case
<b>1206H01</b>	RB 8	1 case of 21 RE-FREEZ-R-BRIX RB 8	21
<b>1206H02</b>	RB15	1 case of 12 RE-FREEZ-R-BRIX RB 15	12
<b>1206H03</b>	RB 30	1 case of 6 RE-FREEZ-R-BRIX RB 30	6
<b>1206H04</b>	RB 28	1 case of 6 RE-FREEZ-R-BRIX RB 28	6
<b>1206H05</b>	RB 60	1 case of 3 RE-FREEZ-R-BRIX RB 60	3

# Environmental *(continued)*

## Sample Transport *(continued)*

### Thermosafe Water Sample Container/Mailer

#### **Mailer guarantees sample integrity**

- For use with 9853Q01 and Q02 Sample Containers
- Sturdy foam protects water samples during transport for coliform testing
- Rib structure holds 100mL vials tightly in place
- Lightweight, reusable and recyclable
- Cavity dimensions: 3-3/4 x 2-1/4 x 1-1/2
- Cardboard with reverse-tuck closure
- Meets U.S. Postal Regulations
- Dimensions: 3-7/8 x 3-3/8 x 4-7/8



Thomas No.	Mfr. No.	Description	Case
9853Q03	605	Mailer, Coliform Test	96
9853Q04	606	Mailing Sleeve F/605	192

## Soil Analysis

### C & G Container Terra Core Sampler

The Terra Core Sampler is a single use device that cannot be cleaned and/or reused. A two piece disposable field sampler. This sampler is designed to store soil and not solvents or free product.



Thomas No.	Mfr. No.	Description	Case
1203F02	SSC005800E09	5 gram Terra Core sampler	100
1203F03	SSC010080E09	10 gram Terra Core sampler	100

### C & G Container En Core® Sampler

- En Core® Sampler is a SINGLE USE device. It cannot be cleaned and/or reused.
- En Core® Sampler is designed to store soil. Do not use En Core Sampler to store solvent or free product
- En Core® Sampler must be used with En Core® T-Handle and/or En Core® Extrusion Tool exclusively. (These items are sold separately.)



Thomas No.	Mfr. No.	Description	Each	Case
1203F04	SSC005700E09	5 gram En Core® Sampler	—	50
1203F05	SSC025770E09	En Core® Sampler T-HANDLE for 5 & 25 gram	1	—

### LaMotte Soil pH Test Kit

Supplied with a color chart and plastic spot plate. pH affects all mineral elements and the biological process made available to plants from the soil. Accurate pH testing is essential to determine lime requirements and to insure that a mineralrich soil is also a fertile one. 100 tests.



Thomas No.	Mfr. No.	Description	Each
C997F00	5024	Soil pH Test Kit	1

### LaMotte Soil Sampler

- Chrome-plated steel
- Takes samples in all types of soils up to a depth of 915 mm
- Consists of sampling tube, two extension rods and handle bar

305 mm-long sampling tube has cutting tip and cutaway wall for inspection and removal of soil core. Sampling depth can be increased to 610 or 915 mm by attaching extension rod. Rods are marked at mid-point depth. Packaged disassembled in fiberboard carrying tube.



Thomas No.	Mfr. No.	Description	Each
8329L70	1016	Soil Coring Tube	1

### LaMotte Soil Sampling Bag

Size 152 x 102 mm, with tongue-and-groove closure. Instructions for collection and preparation of soil samples are printed on bag.



Thomas No.	Mfr. No.	Description	Pack
8329L25	0615-J	Soil Sampling Bag	100

### LaMotte Soil Texture Unit

- For separating soil sample into its sands, silt and clay fractions

Consists of three calibrated conical tubes, three-place plastic rack, 2-oz. dropper bottle of flocculating reagent, and soil handbook.



Thomas No.	Mfr. No.	Description	Each
8329L85	1067	Soil Texture Unit	1

### LaMotte Soil Analysis Outfit, Model STH-14

- Tests performed on liquid soil extract
- Reagents and labware mounted in foam-lined, removable shelves in a carrying case of ABS plastic
- Tests for 14 macro and micro nutrients that are available for plate uptake



Thomas No.	Mfr. No.	Description	Each
8329B10	5010-01	Soil Analysis Outfit, Model STH-14	1

**m-FC Broth with  
Rosolic Acid, see page 53**



**Soil Analysis** (continued)**LaMotte  
Soil pH Test Kit,  
Tablets**

By popular demand, TesTabs® method.  
Companion to Soil NPK kit (Code 3-5880).  
Simple diagrammed instructions.

- 50 tests for pH
- Wide Range 4-11 in 1.0 pH units
- Distilled or deionized water recommended



Thomas No.	Mfr. No.	Description	Each
1222U68	5912	Soil pH Test Kit, Tablets	1

**Bel-Art Products  
Scienceware® White  
Sterileware® Scoops**

Scienceware® White Sterileware® Scoops are the perfect shape and size for taking samples, especially from wide-mouth containers.

- Stays upright when packed or unpacked for use as weighing boat
- 2 and 4 oz. scoops have a longer handle to keep hand away from sample
- High-impact, FDA grade polystyrene
- Sterilized by Gamma Irradiation, lot stamped for accurate tracing, individually packed for one time use and disposal, and shipped with a Certificate of Processing



Thomas No.	Mfr. No.	Description	Pack	Case
8268N20	H369020000	Sterileware® Scoop, White, 60 ml (2 oz.)	—	100
1222X31	H369020010	Sterileware® Scoop, White, 60 ml (2 oz.)	10	—
8268N30	H369040000	Sterileware® Scoop, White, 125 ml (4 oz.)	—	100
1222X33	H369040010	Sterileware® Scoop, White, 125 ml (4 oz.)	10	—
8268N40	H369060000	Sterileware® Scoop, White, 250 ml (8 oz.)	—	100

**Bel-Art Products  
Scienceware® Sterileware®  
Economy Sample Spoons**

Economical Solution for Small Quantities  
of Dry or Liquid Measures

These economical measures are ideal for retrieving small, specific volume samples of powders or liquids. Their unique flat bottom shape allows them to be used as weighing boats for additional sampling accuracy. Use a separate spoon for each material sampled to avoid cross contamination. All sizes are made from white, high-impact polystyrene for durability and stiffness when sampling packed powders.



Thomas No.	Mfr. No.	Description	Pack
1222X22	F367400110	Sample Spoon, Sterileware®, 1.25 ml	10
1222X23	F367400210	Sample Spoon, Sterileware®, 2.5 ml	10
1222X24	F367400310	Sample Spoon, Sterileware®, 5 ml	10
1222X25	F367400410	Sample Spoon, Sterileware®, 8 ml	10
1222X26	F367400510	Sample Spoon, Sterileware®, 20 ml	10

**Tubes****Globe Scientific  
16 x 125mm Test Tubes**

- An extensive line for multi-use test tubes
- Tubes are molded from premium grade polystyrene for clarity or polypropylene for impact strength and stability to common acids, alkalies, and solvents
- Polystyrene tubes can withstand 1500 RPM during centrifugation
- Polypropylene tubes can withstand 3000 RPM and are autoclavable and freezable



Thomas No.	Mfr. No.	Description	Case
1202K32	110115	Test Tube, 16 x 125mm (19mL), PS, 500/Bag, 2 Bags/Unit	1000
1202K33	110125	Test Tube, 16 x 125mm (19mL), PP, 500/Bag, 2 Bags/Unit	300

**Globe Scientific  
Borosilicate Glass  
Culture Tubes**

- Material: Type 1, Class A Borosilicate Glass
- Tubes can be used for tissue culture and blood banks
- Tubes are chemically inert
- Produced in an ISO 9001:2008 certified factory
- Tubes feature well-rounded bottoms and smooth fire-polished rims
- Meets ASTM E890 specification, type 1 requirements
- Conforms to USP Type 1 standards

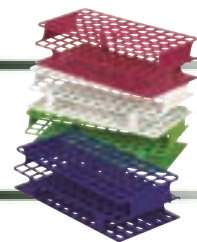
Our exclusive TubeSaver™ Packaging System helps prevent breakage and contamination during shipping and storage. The tubes are neatly stacked in heavy-duty, shrink wrapped boxes of 250 tubes, 4 boxes per case.

For additional convenience, the 10 x 75mm, 12 x 75mm and 13 x 100mm boxes fit into Globe Scientific's metal/plexiglass tube dispensers.



Thomas No.	Mfr. No.	Description	Box	Case
1218M69	1503	Borosilicate Glass Culture Tube, 10 x 75mm, 3 ml	250	1000
1218M70	1505	Borosilicate Glass Culture Tube, 12 x 75mm, 5 ml	250	1000
1218M71	1510	Borosilicate Glass Culture Tube, 13 x 100mm, 7 ml	250	1000
1218M72	1512	Borosilicate Glass Culture Tube, 16 x 100mm, 10 ml	250	1000
1218M73	1515	Borosilicate Glass Culture Tube, 16 x 125mm, 12 ml	250	1000
1218M74	1517	Borosilicate Glass Culture Tube, 16 x 150mm, 15 ml	250	1000

**Need a rack?**  
**Visit [thomassci.com](http://thomassci.com)**



# Chemicals



For detecting trace impurities and pollutants at environmental testing firms, industry environmental health and safety specialists.

These analytical reagents and other laboratory chemicals are at work in environmental testing labs, and are utilized in the following techniques: analytical chromatography, spectrophotometry and a host of advanced element analysis techniques, including inductively coupled plasma and atomic absorption.

## Acetic Acid Glacial

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C005R50</b>	9524-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	6 x 2.5 L

## Acetone

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C006V08</b>	9254-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Acetone

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C006U09</b>	H451-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Acetonitrile

*for Use in Liquid Chromatography and Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C000A77</b>	9012-03	HPLC	Baker	Glass Bottle	4 L
<b>C007K23</b>	9017-03	HPLC UltraGradient	Baker	Glass Bottle	4 L

## Ammonium Hydroxide 30%

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0149D10</b>	9733-01	BAKER INSTRA-ANALYZED™	Baker	Poly Bottle	12 x 500 mL

## Baker PHIX pH 0-14

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>3108W03</b>	4390-01	—	Baker	—	100 PK

## Ether, Anhdrous

*suitable for Fat Extraction, Contains BHT as a Preservative*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C313K14</b>	9244-03	BAKER ANALYZED ACS Reagent	Baker	SAFETAINER	4 L

## Ethyl Acetate

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C314W38</b>	4992-19	AR (ACS)	Mallinkrodt	Steel Pail	20 L

## Ethylene Glycol

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C318E73</b>	9300-03	BAKER ANALYZED Reagent	Baker	Glass Bottle	4 L

## Florisil SPE Column 1000mg 6mL

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0144L81</b>	7213-27	SPE	Baker	—	250 EA

## Hexane (95% N-Hexane)

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C389S59</b>	9262-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Hexane (95% N-Hexane)

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C389N56</b>	H487-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Hydrochloric Acid (36.5 - 38.0%)

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C395M37</b>	9530-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L
<b>C395M67</b>	9535-03	BAKER ANALYZED ACS Reagent	Baker	Glass Bottle	2.5 L

## 2-Propanol

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C630H90</b>	9334-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Methanol

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C490C17</b>	9263-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Methanol

*for Purge and Trap Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C490C61</b>	9077-02	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	1 L

## Methyl Alcohol

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C493E14</b>	H488-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Methyl Alcohol, Anhydrous

*for Laboratory, Research, or Manufacturing Use*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0562A23</b>	3004-08	—	Mallinkrodt	Glass Bottle	4 L

## Methyl Alcohol, Anhydrous, ChromAR

*suitable for Liquid Chromatography and UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C493E18</b>	3041-06	ACS, ChromAR	Mallinkrodt	Glass Bottle	1 L

## Methylene Chloride

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C499R40</b>	9264-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Methyl Alcohol, Anhydrous, ChromAR

*suitable for Liquid Chromatography and UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C493E18</b>	3041-06	ACS, ChromAR	Mallinkrodt	Glass Bottle	1 L



## Methylene Chloride

for Organic Residue Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C499R40	9264-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Dichloromethane Stabilized

suitable for LC, Extraction/Concentration, UV-Spectrophotometry

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C269L40	H485-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Nitric Acid

for Trace Element Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C544G50	6623-46	AR Select (ACS)	Mallinkrodt	SAFEMOR	2.5 L
C544E80	6901-05	UltimAR®	Baker	Fluoropolymer Bottle	500 mL

## Nitric Acid

for Trace Metal Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C544H94	9598-34	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L

## Pentane

for Organic Residue Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C572J60	9333-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Sodium Chloride

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C710L89	3624-05	BAKER ANALYZED ACS Reagent	Baker	Poly Bottle	2.5 kg

## Sodium Sulfate

suitable for Use in Pesticide Residue Analysis, Tested for Hexane Extractable Impurities

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C724B91	3375-05	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	2.5 kg
C724B64	3375-07	ULTRA RESI-ANALYZED™	Baker	Fiber Lined Drum	12 kg
C724B67	3375-09	ULTRA RESI-ANALYZED™	Baker	Fiber Lined Drum	45.5 kg
C724B72	8024-06	AR (ACS)	Mallinkrodt	Glass Bottle	2.5 kg
C724B78	8024-20	AR (ACS)	Mallinkrodt	STAKMOR	12 kg

## Sulfuric Acid

for Trace Element Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
0564M31	5557-46	AR Select (ACS)	Mallinkrodt	SAFEMOR	6 x 2.5 L

## Sulfuric Acid

for Trace Metal Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C746N58	9673-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L

## Avantor – J.T.Baker®

### BAKERBOND® Speedisk® Extraction Disks for Manual Extraction Stations

Easier, faster and more economical testing of all water sampling types

Patented Speedisk extraction disks are neither cartridge nor membrane. A thin bed of BAKERBOND® sorbent is supported in a laminar configuration to allow for filtration, resist clogging and maximize capacity, adsorption and speed.



Thomas No.	Mfr. No.	Description	Each
0144N38	8068-06	BAKERBOND Speedisk® H2O-Phobic DVB Extraction Disk	1
8330C16	8060-06	BAKERBOND Speedisk® Oil and Grease, 50mm	20
0144N47	8082-06	BAKERBOND Speedisk® for EPA Method 8270	1
0144N31	8055-07	BAKERBOND Speedisk® Octadecyl (Cf) 20/box	1
8330C01	8055-06	BAKERBOND Speedisk® Octadecyl (Cf)	1

## Toluene

for Organic Residue Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
0148W64	9336-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Water

for Environmental Inorganic and Organic Trace Analysis

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
C864S96	4219-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Scientific Plastics Spill Containment Trays

- Laboratory spill trays are a minimum 3/16" thick, one piece stress free, virgin polyethylene with smooth interior walls and coved corners for easy cleaning
- Trays conform to ASTM #1412 for corrosion resistance, and provide secondary containment complying with OSHA 1910.1450 and EPA 264.175 for chemical stockrooms/storerooms



Thomas No.	Mfr. No.	Description
1185F75	T521816-101	Spill Containment Tray, 16 x 18 x 1"
1189Y31	T521816-201	Spill Containment Tray, 16 x 18 x 2"
1185F76	T522218-101	Spill Containment Tray, 22 x 18 x 1"
1189Y32	T522218-201	Spill Containment Tray, 22 x 18 x 2"
1185F77	T522818-101	Spill Containment Tray, 28 x 18 x 1"
1189Y33	T522818-201	Spill Containment Tray, 28 x 18 x 2"
1185F78	T523418-101	Spill Containment Tray, 34 x 18 x 1"
1189Y34	T523418-201	Spill Containment Tray, 34 x 18 x 2"
1185F79	T524618-101	Spill Containment Tray, 46 x 18 x 1"
1189Y35	T524618-201	Spill Containment Tray, 46 x 18 x 2"





## Acetic Acid, Glacial

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001C20</b>	AX0073-75	GR ACS	Poly Coated Glass Bottle	2.5 L
<b>C005Q96</b>	AX0073-9	GR ACS	Glass Bottle	2.5 L

## Acetone

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C006S35</b>	AX0120-3	GR ACS	Metal Can	20 L
<b>0612A41</b>	AX0120-8	GR ACS	Glass Bottle	4 L

## Ammonium Hydroxide

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C992F94</b>	AX1308-7	OmniTrace Ultra™	HDPE Bottle	250 mL

## Dichloromethane

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C269H73</b>	DX0831-1	OmniSolv®	Glass Bottle	4 L

## Ethyl Ether, Anhydrous

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C313K63</b>	EX0190-3	GR ACS	Metal Can	4 L

## Ethyl Acetate

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0609P33</b>	EX0240-3	GR ACS	Metal Can	20 L

## n-Hexane 95%

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001C35</b>	HX0295-1	OmniSolv®	Glass Bottle	4 L

## Hydrochloric Acid

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C395L92</b>	HX0603-3	GR ACS	Glass Bottle	2.5 L

## Hydrochloric Acid 34-37%

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001S13</b>	HX0607-4	OmniTrace®	Glass Bottle	2.5 L

## Hydrogen Peroxide Solution 30% W/W

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C396V54</b>	HX0635-6	GR ACS	Poly Bottle	2.5 L

## Methanol, Pesticide Residue Grade

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0612A12</b>	MX0484-1	OmniSolv®	Glass Bottle	4 L

## MilliporeSigma pH-indicator Strips

- Rapid on-the-spot pH determination
- More precise evaluation thanks to differentiated color gradients
- Expressive results for environmental analysis and in-process controls
- Calibration and checking of the products by certified buffer solutions



Thomas No.	Mfr. No.	Description	Pack	Case
<b>1205P17</b>	1.09540.0001	pH-indicator strips pH 0 - 2.5	100	10,000
<b>1205P19</b>	1.09541.0001	pH-indicator strips pH 2.5 - 4.5	100	10,000
<b>1205P21</b>	1.09542.0007	pH-indicator strips pH 4.0 - 7.0	600	—
<b>1205P24</b>	1.09543.0007	pH-indicator strips pH 6.5 - 10.0	600	—
<b>1205P27</b>	1.09545.0001	pH-indicator strips pH 11.0 - 13.0	100	10,000

## Methanol, Anhydrous

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0612A08</b>	MX0487-5	GR ACS	Glass Bottle	4 L

## Petroleum Ether, Non UV

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C577M30</b>	PX0424-1	OmniSolv®	Glass Bottle	4 L

## Isopropyl Alcohol

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C631H90</b>	PX1834-1	OmniSolv®	Glass Bottle	4 L

## Sodium Chloride

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C995Q15</b>	1.06406.0500	Suprapur®	Plastic Bottle	500 g

## Sodium Sulfate, Anhydrous, Granular

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C724B98</b>	SX0760-20	GR ACS	Fiber Drum w/ Bag	45 kg
<b>C724B93</b>	SX0760-3	GR ACS	Glass Bottle	2.5 kg
<b>0610T74</b>	SX0760-5	GR ACS	Poly Pail	12 kg

## Sulfuric Acid

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C746D54</b>	SX1244-5	GR ACS	Glass Bottle	2.5 L

## Sulfuric Acid, 95.5-96.5%

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001T01</b>	SX1247-4	OmniTrace®	Glass Bottle	2.5 L

## Toluene

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C821H70</b>	TX0737-1	OmniSolv®	Glass Bottle	4 L

## Water

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001D88</b>	WX0003-2	OmniTrace Ultra™	LDPE Bottle	2 L

## MilliporeSigma SIGMA (continued)

### MilliporeSigma Millipore Media

#### Millipore Media: Standards for Reliability and Simplicity

- Nutrient media developed specifically for culturing microorganisms on mem/liane filter
- Selective media forms to match organism type and analytical test needs
- Precise quality control procedures during ampouled media manufacture and testing ensure optimal growth and maximum shelf life
- m-Endo and M-FC medium is manufactured for use in the bacteriological analysis of potable waters in accordance with procedures referenced in Standard Methods (recent edition) and laboratory standards for equipment and materials set forth by the U.S. Environmental Protection Agency
- Dehydrated media in pads are also available



Thomas No.	Mfr. No.	Description	Pack
1217M71	MHA000P2E	M-Endo Liquid Media Ampoule, 2 mL	50
1217M72	MHA000P2F	m-FC Broth with Rosolic Acid, 2 mL	50
1217M77	MHA00FCR2	M-FC Fecal Coliform No Rosolic Acid Liquid Media Ampoule, 2 mL	50
1217M74	MHA000P2S	HPC/SPC Liquid Media Ampoule, 2 mL	50
1217M73	MHA000P2P	Pseudomonas Liquid Media Ampoule, 2 mL	50
1217M80	M00PMC24	m-ColiBlue24®, 2mL, Coliform and E Coli Detection Medium	50

### MilliporeSigma Empore™ SPE Disks Oil and Grease

Developed specifically for EPA Method 1664A - Oil & Grease (n-Hexane Extractable Material (HEM) in Aqueous Samples).

- Compatible with Horizon SPE Extractors
- Obtain faster flow-rates without sacrificing recovery and reproducibility.

#### One-piece 3-layer construction:

- Top layer - PP pre-filter
- Middle layer - Flow enhancing C18 sorbent
- Bottom layer - PP scrim
- Reduced SPE Bed Mass = Reduced SPE Solvent and Elution Volumes
- Minimize SPE eluate evaporation time
- Potentially allows for direct injection of the SPE eluate
- Dense and; Uniform Extraction Medium = No SPE Channeling and Voiding
- Efficient mass-transfer kinetics allow for faster flow rates
- Eliminate SPE fines improving column and instrument life
- Disks are ideal for environmental analysis

#### SPE technology

- SPE particles tightly enmeshed within a network of inert PTFE fibrils (90% SPE particles : 10% PTFE, by weight)
- Empore SPE technology provides a denser, more uniform extraction bed than traditional packed bed products

Thomas No.	Mfr. No.	Description	Pkg. Size
C995C61	66887-U	Empore Oil and Grease 47mm	20

### MilliporeSigma Empore™ Styrene DVB (SDB-XC) 47mm

#### Application

Developed for the extraction of moderately polar to non-polar analytes from aqueous samples and soil extracts. Amenable for the following methods:

- EPA method 515.2 - Chlorinated Acids
- EPA method 526.1 - Selected Semi-volatile organics
- EPA Method 527 - Selected Pesticides & Flame Retardants
- EPA Method 553
- 8041 - Phenols
- 8081 - Organochlorine Pesticide Leachate
- 8270 - Semi-volatile Organic Compounds - TCLP Leachate
- 8321 - Phenoxyacid Herbicides - TCLP Leachate
- 8330 - Nitroaromatics and Nitroamines
- NIOSH 5602 - Alachlor in air

Thomas No.	Mfr. No.	Description	Pkg. Size
C995C62	66884-U	Empore Styrene DVB (SDB-XC) 47mm	20



### Foxx Life Sciences Secondary Containers

A perfect solution for preventing leakage and spillage from Foxx Life Sciences EZwaste® Solvent Waste System containers.

- Made from HDPE material
- Built to be tough and durable.
- Have the ability to hold at least 115% of the container's content.



Thomas No.	Mfr. No.	Description	Each	Pack
1171Z96	252-1901-OEM	14L, for 1L, 2.5L, 4L, 5L, or 10L Carboys	1	—
1170A00	252-1905-OEM	14L, for 1L, 2.5L, 4L, 5L, or 10L Carboys	—	6
1171Z97	252-1902-OEM	34L, for 13.5L or 20L Carboys	1	—
1170A01	252-1906-OEM	34L, for 13.5L or 20L Carboys	—	6
1171Z98	252-1903-OEM	73.4L, for 40L or 60L Carboys	1	—
1170A02	252-1907-OEM	73.4L, for 40L or 60L Carboys	—	3
1171Z99	252-1904-OEM	103.7L, for 75L Carboys	1	—
1170A03	252-1908-OEM	103.7L, for 75L Carboys	—	3

Available at Thomas Scientific



### Absorbent Mats & Pads Spill Kits

Please visit [thomassci.com](http://thomassci.com)  
for additional New Pig Products!



## Chemicals *(continued)*



For many years, GFS Chemicals has provided analytical chemists with many specialized solutions for environmental analysis. GFS supplies standardized oxidants and reductants, metal and common anion standards, standards and acids, bases and buffers, ICP and AA standards, pollution and environmental multi-element kits, ultra pure salts useful as matrix modifiers and ionization buffers.

### Ammonium Chloride

99.5%, cooling baths, buffer solutions

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995F50	12502	ACS	2.5 kg

### Color APHA

500 Color Standard

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997F90	24502	—	500 mL

### Potassium Hydrogen Phthalate

99.95-100%, (KHP) primary standard for acid-base titrations

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995B55	60001	ACS	500 g

### Potassium Iodide

99%, phenols, reducing agent

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H15	61002	—	500 g

### Potassium Phosphate Dibasic

98%, buffering agent

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995G74	61901	ACS	500 g

### Sodium Hydroxide

97%, caustic soda, chemical base

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H82	67802	ACS	2.5 kg

### Sodium Nitroferrocyanide dihydrate

99%, used to detect organic compounds

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H97	68401	—	250 g

### Sodium sulfate, anhydrous

99%, 10-60 mesh granular, Total Petroleum Hydrocarbons (TPH)

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995J19	69301	ACS	500 g

### Stannous Chloride

98-103%

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995J43	70502	—	500 g

**AMCO Clear®** is an EPA approved primary standard for calibration of turbidity sensors that is safe, non-toxic and disposable. It is easy-to-use with no dilution or resuspension, and it is available in a wide range of values.

It is NIST traceable to particle size/distribution and optical density, and its inherent stability means it does not settle from suspension. It has a guaranteed one year shelf life even if you've opened the bottle and happened not to have recapped it tightly.

The convenient submicron polymer suspensions are non-toxic primary calibration standards approved by the US EPA for drinking water analysis for turbidity.

AMCO Clear® is the unique, non-toxic low-level turbidity standard that can reliably read from 0.02 NTU to 10,000 NTU every time.

### AMCO CLEAR® Calibration Kit, for HACH 2100N/AN

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N81	85551	—	250 mL

### AMCO CLEAR® Calibration Kit, for HF MICRO 100

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N85	85555	—	250 mL

### AMCO CLEAR® Calibration Kit, for LaMotte 2020WE

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997H36	85781	—	250 mL

### AMCO CLEAR® Turbidity Standard, 0.0 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N74	85003	—	250 mL

### AMCO CLEAR® Turbidity Standard, 1.0 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D18	85035	—	250 mL

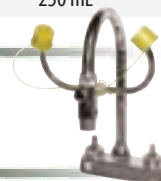
### AMCO CLEAR® Turbidity Standard, 10 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D22	85064	—	250 mL

### AMCO CLEAR® Turbidity Standard, 20 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D24	85070	—	250 mL

For Eyewash Stations,  
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## ORGANIC STANDARDS

### Method 505

*EPA 505: Analytical method for the monitoring of organochlorine pesticides and PCBs in drinking water and raw source water by GC-ECD.*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C901Q97</b>	505-A2	Acetone	Reformulated Organohalide Pesticides Mix	1 mL
<b>C901T06</b>	DCBP-XH	Toluene	Decachlorobiphenyl Stock Standard	1 mL
<b>C901T80</b>	PCB-M1	Hexane	Aroclor Mix 1	1 mL
<b>C901T82</b>	PCB-M2	Hexane	Aroclor Mix 2	1 mL
<b>C901X37</b>	TOX-X	Hexane	Toxaphene	1 mL

### Method 525

*EPA 525.2: Determination of Organic Compounds in Drinking Water (LSE, GC/MS)*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C901L01</b>	5252-I	Acetone	Internal	1 mL
<b>C901L12</b>	5252-S	Acetone	Surrogate	1 mL
<b>C901K95</b>	5252-A	Acetone	Semi-Volatile Organics Mix A	1 mL
<b>C901L04</b>	5252-PA	Acetone	Organochlorine Pesticides Mix A	1 mL
<b>C901L05</b>	5252-PB	Acetone	Organochlorine Pesticides Mix B	1 mL

### Method 601

*EPA method 601 is a general analytical method for the monitoring of halogenated VOCs in municipal and industrial wastewater by GC with a Hall detector.*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C900J84</b>	601-A	Methanol	Volatile Organics Blend	1 mL

### Method 8011

*The Determination of EDB and DBCP in drinking water and ground water.*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C900J31</b>	504-AH	Methanol-P&T	EDB/DBCP Analytes (High Level)	1 mL

### Method 8015

*The Determination of concentrations of various nonhalogenated volatile compounds and semivolatile organic compounds.*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C900K54</b>	8015B-A	H <sub>2</sub> O	Alcohols Mix	1 mL

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C900K11</b>	603-XM	Methanol-P&T	Acrolein and Acrylonitrile in Methanol P&T	1 mL



## Buffers

pH control buffers for managing reactions during analysis

- Reference calibration buffers with consistent specifications across all pH ranges
- NIST traceable
- No mercury or formaldehyde compounds used as preservatives
- No chromium compounds used as colorants in RICCA buffers resulting in easier disposal

### Acetate Buffer

*for Iron Analysis (Phenanthroline Method)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C027R03</b>	60-32	1 L

### Buffer, Reference Standard, pH 4.00 ± 0.01

*at 25°C (Color Coded Red)*

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R50</b>	1501-16	500 mL

### Buffer, Reference Standard, pH 7.00 ± 0.01

*at 25°C (Color Coded Yellow)*

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R56</b>	1551-16	500 mL

### Buffer, Reference Standard, pH 10.00 ± 0.01

*at 25°C (Color Coded Blue)*

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R62</b>	1601-16	500 mL

### Phosphate Buffer Solution

*for Chlorine Determination (DPD Methods)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C585N53</b>	5805-32	1 L

## Reagents and Standards

- Large product offering for use in water and solid waste analysis
- Turbidity Standards ranging from 0 to 4,000 NTU
- Reagents for Water Hardness testing, Residual Chlorine, Total Organic Carbon (TOC), Biochemical Oxygen Demand, and Dissolved Oxygen analysis
- Large selection of standardized Titrants for Alkalinity/Acidity, and other analyses; accompanying indicators available
- Vast selection of Ion Selective Electrode standards ranging from 0.1 to 10,000 ppm, Ionic Strength Adjustors, and Electrode filling and Storage solutions
- Environmental Testing Solutions for ORP, Hardness, Nitrogen (Ammonia/Nitrite/Nitrate), Phosphate and Chloride

### COD Standard

*1 mL = 0.3 mg Chemical Oxygen Demand (300 ppm COD)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C998G74</b>	2228-16	500 mL

# Chemicals (continued)



## Color Standard, APHA

Hazen (Platinum-Cobalt)

Thomas No.	Mfr. No.	Pkg. Size
<b>C199V32</b>	223-16	500 mL

## EDTA Titrant

0.0100 Molar (M/100)

Thomas No.	Mfr. No.	Pkg. Size
<b>C317W92</b>	2700-32	1 L

## Fluoride Standard

1 mL = 0.1 mg F<sup>-</sup>, 100 ppm F<sup>-</sup>

Thomas No.	Mfr. No.	Pkg. Size
<b>C344C08</b>	3171-16	500 mL

## Hydrochloric Acid

1.00 N

Thomas No.	Mfr. No.	Pkg. Size
<b>C395N35</b>	3700-5	20 L

## Iodine

0.100 Normal

Thomas No.	Mfr. No.	Pkg. Size
<b>C998M77</b>	4000-1	4 L

## Phenylarsine Oxide (PAO) Titrant

0.00564 Normal, Stabilized

Thomas No.	Mfr. No.	Pkg. Size
<b>C581D28</b>	5750-1	4 L

## TCLP Extraction Fluid

Thomas No.	Mfr. No.	Pkg. Size
<b>C998Y97</b>	8377-5	20 L

## Turbidity Standard, Primary Standard Stock Formazin Suspension

4000 NTU (Nephelometric Turbidity Units)

Thomas No.	Mfr. No.	Pkg. Size
<b>C998Z65</b>	8830-32	1 L

## Water Hardness Buffer

with Magnesium EDTA

Thomas No.	Mfr. No.	Pkg. Size
<b>C865D29</b>	9200-16	500 mL

## Water Hardness Indicator

Thomas No.	Mfr. No.	Pkg. Size
<b>C311W05</b>	9300-4	120 mL

## Spectroscopy Standards

- AA/ICP Standards are made from high-purity solutes and solvents
- AA Standards are available in 1,000 ppm (mg/L)
- ICP Standards are available in 1,000 and 10,000 ppm (mg/L)
- ICP Standards include all elements required by the Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) plus many other elements
- QC, GFAA, and CVAA standards available
- Solutions for instrument maintenance
- Standards are tested against NIST Standards where suitable materials exist
- ICP Standards are packaged with their Certificate of Analysis
- Certificates of Analysis for ICP Standards detail analytical data for 69 trace level elements and impurities
- ICP Standards are made from ultra high purity starting materials

## Arsenic AA Standard

1 mL = 1 mg As (1,000 ppm As)

Thomas No.	Mfr. No.	Pkg. Size
<b>C047C43</b>	AAS1KN-100	100 mL

## Calcium AA Standard

1 mL = 1 mg Ca (1,000 ppm Ca)

Thomas No.	Mfr. No.	Pkg. Size
<b>C998F67</b>	ACA1KH-100	100 mL

## Lead AA Standard

1 mL = 1 mg Pb (1,000 ppm Pb)

Thomas No.	Mfr. No.	Pkg. Size
<b>C442A73</b>	APB1KN-100	100 mL

## Sodium AA Standard

1 mL = 1 mg Na (1,000 ppm Na)

Thomas No.	Mfr. No.	Pkg. Size
<b>C703Q28</b>	ANA1KW-100	100 mL

## Iron ICP Standard

1 mL = 1 mg Fe (1,000 ppm Fe)

Thomas No.	Mfr. No.	Pkg. Size
<b>C417Y12</b>	PFE1KN-100	100 mL

## Magnesium ICP Standard

1 mL = 1 mg Mg (1,000 ppm Mg)

Thomas No.	Mfr. No.	Pkg. Size
<b>C467N92</b>	PMG1KN-100	100 mL

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TO RECEIVED INFORMATION  
ON ANY TOXIC SUBSTANCE  
WITH WHICH YOU ARE  
WORKING. YOU ARE  
ENTITLED TO COME IN CONTACT WITH



## Conductivity Standards

- Wide range of Conductivity Standard concentrations, from 5  $\mu\text{mho/cm}$  to 400,000  $\mu\text{mho/cm}$
- Manufactured to tightest market specifications of  $\pm 0.5\%$  or less
- Standards are NIST traceable, and many of our Conductivity
- Standards can also be used as Total Dissolved Solids standards

### Conductivity Standard

10  $\mu\text{S/cm}$  (10  $\mu\text{mho/cm}$ ) at 25°C, 4.7 ppm as NaCl

Thomas No.	Mfr. No.	Pkg. Size
C998N97	2236-16	500 mL

### Conductivity/TDS Standard

100  $\mu\text{S/cm}$  (100  $\mu\text{mho/cm}$ ) at 25°C, 47.2 ppm as NaCl

Thomas No.	Mfr. No.	Pkg. Size
C997A47	2237-16	500 mL

### Conductivity/TDS Standard

1 mS/cm (1000  $\mu\text{mho/cm}$ ) at 25°C, 495 ppm as NaCl

Thomas No.	Mfr. No.	Pkg. Size
C001Y95	2243-16	500 mL

### Potassium Chloride

0.0100 Molar (M/100), 1412  $\mu\text{S/cm}$  (1412  $\mu\text{mho/cm}$ ) at 25°C

Thomas No.	Mfr. No.	Pkg. Size
C997C37	5890-32	1 L

## High Purity Water

- Water system validated under cGMP
- ISO 9001:2008 compliant
- FDA Class I Medical Device registered
- Tested to latest USP/ EP requirements
- Low microbial/ Non-sterile
- Pharmaceutical testing labs

### Water, USP/EP Purified

Thomas No.	Mfr. No.	Pkg. Size
C998Z92	9190-2.5	10 L
C998Z93	9190-5	20 L
C998Z94	9190-1	4 L

### Water, ACS Reagent Grade, ASTM Type I, ASTM Type II

Thomas No.	Mfr. No.	Pkg. Size
C864T27	9150-2.5	10 L
C864T46	9150-5	20 L
C864T43	9150-1	4 L

## Atomic Absorption Standards

RICCA Chemical Company standards for Atomic Absorption are ready to use and come equipped with a detailed Certificate of Analysis with each bottle. Standards are NIST traceable and are manufactured with high purity solutes and solvents.

### VeriSpec™ Aluminum (Al) Standard

for AAS, 1000 ppm in 2% HCl

Thomas No.	Mfr. No.	Pkg. Size
C839T74	RV010002-100N	100 mL
C839T75	RV010002-500N	500 mL
C839T76	RV010002-1N	1000 mL

### VeriSpec™ Silver (Ag) Standard

for AAS, 1000 ppm in 2% HNO<sub>3</sub>

Thomas No.	Mfr. No.	Pkg. Size
C839T72	RV010001-100N	100 mL
C839T73	RV010001-500N	500 mL

### VeriSpec™ Arsenic (As) Standard

for AAS, 1000 ppm in 2% HCl

Thomas No.	Mfr. No.	Pkg. Size
C839T77	RV010003-100N	100 mL
C839T78	RV010003-500N	500 mL

### VeriSpec™ Gold (Au) Standard

for AAS, 1000 ppm in 2% HC

Thomas No.	Mfr. No.	Pkg. Size
C839T79	RV010004-100C	100 mL
C839T80	RV010004-500C	500 mL

### VeriSpec™ Boron (B) Standard

for AAS, 1000 ppm in H<sub>2</sub>O

Thomas No.	Mfr. No.	Pkg. Size
C839T81	RV010005-100N	100 mL
C839T82	RV010005-500N	500 mL

### VeriSpec™ Barium (Ba) Standard

for AAS, 1000 ppm in 2% HCl

Thomas No.	Mfr. No.	Pkg. Size
C839T83	RV010006-100N	100 mL
C839T84	RV010006-500N	500 mL

### VeriSpec™ Beryllium (Be) Standard

for AAS, 1000 ppm in 2% HCl

Thomas No.	Mfr. No.	Pkg. Size
C839T85	RV010007-100N	100 mL
C839T86	RV010007-500N	500 mL

### VeriSpec™ Bismuth (Bi) Standard

for AAS, 1000 ppm in 10% HNO<sub>3</sub>

Thomas No.	Mfr. No.	Pkg. Size
C839T87	RV010008-100N	100 mL
C839T88	RV010008-500N	500 mL





## ICP/ICP-MS Standards

ICP/ICP-MS Standards are available in both single-element and multi-element solutions. Products include elements required by the EPA Contract Laboratory Program plus many other elements.

Both single and multi-element standards are applicable to standard methods such as EPA 200.7, 200.8, 200.9, SW-846, 6010, 6020, 200.11, etc. Certificates of Analysis contain details for 70 trace elements and impurities.

### VeriSpec™ Sodium Standard

*for ICP, 1000 ppm in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C839X67	RV010295-50N	50 mL
C839X68	RV010295-100N	100 mL
C839X69	RV010295-250N	250 mL
C839X70	RV010295-500N	500 mL

### VeriSpec™ Neodymium Standard

*for ICP, 1000 ppm in 2% HNO<sub>3</sub>*

Thomas No.	Mfr. No.	Pkg. Size
C839X75	RV010297-50N	50 mL
C839X76	RV010297-100N	100 mL
C839X77	RV010297-250N	250 mL
C839X78	RV010297-500N	500 mL

### VeriSpec™ Aluminum Standard

*for ICP/MS, 100 ppm in 2% HNO<sub>3</sub>*

Thomas No.	Mfr. No.	Pkg. Size
C838D37	RV010503-100N	100 mL

### VeriSpec™ Gold Standard

*for ICP/MS, 100 ppm in 2% HCl*

Thomas No.	Mfr. No.	Pkg. Size
C838D39	RV010505-100C	100 mL

### VeriSpec™ Copper Standard

*for ICP/MS, 10 ppm in 2% HNO<sub>3</sub>*

Thomas No.	Mfr. No.	Pkg. Size
C838E23	RV010584-100N	100 mL

### VeriSpec™ Varian Calibration Standard

Thomas No.	Mfr. No.	Pkg. Size
C838F08	RV010653-100N	100 mL

### VeriSpec™ Interference Check Solution A

Thomas No.	Mfr. No.	Pkg. Size
C838F12	RV010657-100N	100 mL
C838F13	RV010657-500N	500 mL

### VeriSpec™ QC Standard 27

Thomas No.	Mfr. No.	Pkg. Size
C838F22	RV010667-100N	100 mL

### VeriSpec™ Primary Drinking Water Metals

Thomas No.	Mfr. No.	Pkg. Size
C838H04	RV010850-100N	100 mL

## Ion Chromatography Standards

RICCA Standards for Ion Chromatography are manufactured and tested in ISO 17025/Guide 34 standards under a certified ISO 9001 Quality Management System.

Product are available in both single and multi-ion solutions.

### VeriSpec™ Acetate - CH<sub>3</sub>C OO<sup>-</sup> Standard

*for Ion Chromatography, 1g/L in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C838H51	RV010900-100C	100 mL
C838H52	RV010900-250C	250 mL
C838H53	RV010900-500C	500 mL

### VeriSpec™ Ammonium - NH<sub>4</sub><sup>+</sup> Standard

*for Ion Chromatography, 1000 ppm in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C838H54	RV010901-100N	100 mL
C838H55	RV010901-250N	250 mL
C838H56	RV010901-500N	500 mL

### VeriSpec™ Magnesium - Mg<sup>2+</sup> Standard

*for Ion Chromatography, 1000 ppm in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C838J20	RV010923-100N	100 mL
C838J21	RV010923-250N	250 mL
C838J22	RV010923-500N	500 mL

### VeriSpec™ Maleate - C<sub>2</sub>H<sub>2</sub>(COO)<sub>2</sub><sup>2+</sup> Standard

*for Ion Chromatography, 1000 ppm in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C838J23	RV010924-100N	100 mL
C838J24	RV010924-250N	250 mL
C838J25	RV010924-500N	500 mL

### VeriSpec™ Phosphate - PO<sub>4</sub><sup>3-</sup> Standard

*for Ion Chromatography, 1000 ppm in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Pkg. Size
C838J59	RV010936-100N	100 mL
C838J60	RV010936-250N	250 mL
C838J61	RV010936-500N	500 mL



## pH Buffer Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
C992A84	PHRED-4	pH 4 Red Standard	250 mL
C992A85	PHRED-4-5	pH 4 Red Standard	500 mL
C992A86	PHRED-4-1L	pH 4 Red Standard	1 L
C992A87	PHRED-4-4L	pH 4 Red Standard	4 L
C992A88	PHRED-4-10L	pH 4 Red Standard	10 L
C992A89	PHYELLOW-7	pH 7 Yellow Standard	250 mL
C992A90	PHYELLOW-7-5	pH 7 Yellow Standard	500 mL
C992A91	PHYELLOW-7-1L	pH 7 Yellow Standard	1 L
C992A92	PHYELLOW-7-4L	pH 7 Yellow Standard	4 L
C992A93	PHYELLOW-7-10L	pH 7 Yellow Standard	10 L
C992A94	PHBLUE-10	pH 10 Blue Standard	250 mL
C992A95	PHBLUE-10-5	pH 10 Blue Standard	500 mL
C992A96	PHBLUE-10-1L	pH 10 Blue Standard	1 L
C992A97	PHBLUE-10-4L	pH 10 Blue Standard	4 L
C992A98	PHBLUE-10-10L	pH 10 Blue Standard	10 L
C996W90	TOCKHP1-5	pH 10 Blue Standard	500 mL

## Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
C000L85	QCP-CAT	Cations Standard	20 mL
C000L91	QCP-CR6	Chromium +6 Standard	20 mL
C000L99	QCP-NUT-2	Complex Nutrients Standard	20 mL
C000L90	QCP-CN	Cyanide Standard	20 mL
C000L92	QCP-DMD	Demand Standard	20 mL
C000L93	QCP-HG	Mercury Standard	20 mL
C000L95	QCP-MIN	Minerals Standard	500 mL
C000M00	QCP-OG-A	Oil & Grease Standard 1	20 mL
C000M01	QCP-OG-W	Oil & Grease Standard 2	250 mL
C000M03	QCP-PHEN	Phenolics Standard	20 mL
C000L98	QCP-NUT-1	Simple Nutrients Standard	20 mL
C000M10	QCP-SLD	Solids Standard	450 mL
C000M12	QCP-TRC	Total Residual Chlorine Standard	10 mL
C000M11	QCP-TMS	Trace Metals Standard	20 mL
C000M13	QCP-TURB	Turbidity Standard	20 mL
C000M14	QCP-WH	Water Hardness Standard	500 mL
C000M02	QCP-PH	pH Standard	20 mL

## Reagents for Water Analysis

**Hach® Direct Replacement Water Quality Reagents Same Results Guaranteed, or your money back!**



Available for most testing parameters including:

Ammonia	Copper	Nitrate	Phosphate
Chlorine	Iron	Nitrite	Silica
COD	Manganese	Molybdate	Sulfate

**VARIO Powder Pack™ Reagents** from Lovibond® Tintometer® are pre-measured, unit dose in a convenient foil pack. Simply tear open the Powder Pack and pour the reagent into the sample.

We think you will find our Powder Packs to be:

- **Easy-to-handle** – They're 37% larger than the competition's design which makes them easier to handle.
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- **Easy-to-dispense and -pour** – They easily create a "V" to allow the user to pour the reagent into the sample. They also have a beveled edge to make sure no reagent gets stuck in the corners!

DPD reagents from Lovibond® Tintometer® have also been specifically formulated to work in Hach® and other manufacturers' test kits, colorimeters and spectrophotometers.

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## Aluminum Reagent Set

Method: *Erichrome Cyanide R*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X13	535000	Aluminum Powder Pack Reagent Set, 10 mL	0 - 0.22	100

## Ammonia

Method: *Salicylate*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
C974V07	535600	VARIO Ammonia LR Reagent Set, F5	0 - 2.5	100

## Ammonia Nitrogen

Method: *Salicylate*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X61	535500	Ammonia Nitrogen Reagent Set, 10mL	0 - 0.5	100

## Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X43	531100	Ascorbic Acid Powder Pack	—	100

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# Chemicals (continued)



(continued)

## Chlorine, Free

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X14	530090	DPD Free Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	100
1226X15	530093	DPD Free Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	1000
1226X16	530100	DPD Free Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	100
1226X17	530103	DPD Free Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	1000
1226X18	530110	DPD Free Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	100
1226X19	530113	DPD Free Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	1000

## Chlorine, Total

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X20	530080	DPD Total Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	100
1226X21	530083	DPD Total Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	1000
1226X22	530120	DPD Total Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	100
1226X23	530123	DPD Total Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	1000
1226X24	530130	DPD Total Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	100
1226X25	530133	DPD Total Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	1000

## Copper

Method: Bicinchoninate

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X36	530300	Copper Reagent Powder Packs, 10 mL	0 - 5	100
1226X37	530303	Copper Reagent Powder Packs, 10 mL	—	1000

## Iron Ferro

Method: 1, 10-Phenanthroline

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X39	530560	Iron Ferro Reagent Powder Packs, 10 mL	0 - 3	100
1226X40	530563	Iron Ferro Reagent Powder Packs, 10 mL	—	1000

## Manganese

Method: PAN

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
C974V03	535090	VARIO Manganese LR Reagent Set, F10	0 - 0.7	100

## Manganese

Method: Periodate Oxidation

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X45	535100	High Range Manganese Powder Pack Reagent Set, 10mL	0 - 20	100

## Molybdate

Method: Mercaptoacetic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1210X22	535450	Low Range Molybdate Powder Pack Reagent Set, 20 mL	0.05 - 5.0 mg/L MoO <sub>4</sub>	100
1226X48	535300	High Range Molybdate Powder Pack Reagent Set, 10 mL	0.03 - 3 mg/L Mo	100
1226X52	535400	High Range Molybdate Powder Pack Reagent Set, 25 mL	0 - 35	100

## Molybdenum

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X49	530750	High Range Molybdenum 1 Powder Pack, 10 mL	100
1226X50	530760	High Range Molybdenum 2 Powder Pack, 10 mL	100
1226X51	530770	High Range Molybdenum 3 Powder Pack, 10 mL	100
1226X53	530780	High Range Molybdenum 1 Powder Pack, 25 mL	100
1226X54	530790	High Range Molybdenum 2 Powder Pack, 25 mL	100
1226X55	530800	High Range Molybdenum 3 Powder Pack, 25 mL	100

## Nitrate

Method: Chromotropic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
C974V06	535580	VARIO Nitrate Tube Test Reagent Set	1 - 30	25

## Nitrate

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X57	530973	Nitrite 3 Powder Pack, 25 mL	1 - 30	100
1226X58	530973	Nitrite 3 Powder Pack, 25 mL	—	1000
1226X59	530980	Nitrite 3 Powder Pack, 10 mL	—	100

## Nitrogen, Total

Method: Persulfate Digestion

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
C974V04	535550	VARIO Total Nitrogen LR Reagent Set	0.5 - 25	25
C974V05	535560	VARIO Total Nitrogen HR Reagent Set	0 - 150	25

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(continued)

### Phosphate 3 Reagent

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X65	531550	Phosphate 3 Powder Pack Reagent Set, 10 mL	0 - 2.5	100

### Phosphorous, Reactive (Orthophosphate)

Method: Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X66	535200	Reactive Phosphorous Reagent Set, 10 mL	0.06 - 5 mg/L	50

### Phosphate, Total

Method: Acid Digestion / Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X67	535210	Total Phosphate Reagent Set, 10 mL	0.02 - 1.1 P 0.06 - 3.5 PO <sub>4</sub>	50

### Phosphate, Total & Acid Hydrolysable

Method: Acid Digestion / Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X68	535250	Total & Acid Hydrolysable Phosphorous Reagent Set, 10 mL	0.02 - 1.6 P 0.06 - 5 PO <sub>4</sub>	50

### Silica

Method: Heteropoly Blue

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X69	535690	Low Range Silica Reagent Set, 10 mL	0 - 1.6	100
1226X70	535700	High Range Silica Reagent Set, 10 mL	0 - 100	100

### Silica

Method: Silicomolybdate

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X71	535900	Ultra High Range Silica Reagent Set, 25 mL	0 - 200	100

### Silica Acid

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X72	531930	High Range Silica Acid Reagent Powder Pack, 25 mL	100

### Silica Citric Acid

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X73	531940	High Range Silica Citric Acid Powder Pack, 25 mL	100
1226X74	531943	High Range Silica Citric Acid Powder Pack, 25 mL	1000

### Silica Molybdate

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X75	531950	High Range Silica Molybdate Powder Pack, 25 mL	100

### Sodium Periodate

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X47	530660	Sodium Periodate Powder Pack, 10 mL	100

### Sulfate 4 Reagent

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X76	532150	Sulfate 4 Reagent Powder Pack, 25 mL	0 - 70	100
1226X78	532160	Sulfate 4 Reagent Powder Pack, 10 mL	—	100

### COD Reagents

Lovibond® Tintometer® offers COD reagents in packs of 25 or 150 tubes. As with the Powder Pack reagents, Lovibond® Tintometer® COD vials are compatible with BOTH Lovibond® and Hach® colorimeters and meet US EPA testing requirements!

Mercury-Free versions are also available. (See page 60).

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X26	2420720	Low Range COD Tube Test, 0-150 mg/L	0-150	25 Tubes
1226X27	2420725	Low Range COD Tube Test, 0-150 mg/L	—	150 Tubes
1226X28	2420721	Mid Range COD Tube Test, 0-1,500 mg/L	0 - 1,500	25 Tubes
1226X29	2420726	Mid Range COD Tube Test, 0-1,500 mg/L	—	150 Tubes
1226X30	2420722	High Range COD Tube Test, 0-15,000 mg/L	0 - 15,000	25 Tubes
1226X31	2420727	High Range COD Tube Test, 0-15,000 mg/L	—	150 Tubes

### COD Reagents, Mercury Free

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X32	2420710	Low Range COD Tube Test, Mercury Free, 0-150 mg/L	0 - 150	25 Tubes
1226X33	2420711	Mid Range COD Tube Test, Mercury Free, 0-1,500 mg/L	0 - 1,500	25 Tubes
C974V08	2420712	High Range COD Tube Test, Mercury Free, 0-15,000 mg/L	0 - 15,000	25 Tubes

### DEHA Reagent

Method: PPST

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X64	536000	DEHA Reagent Set, 10 mL	20 - 500 ug	100 Tests

**Samples Available! Ask your Thomas Scientific Rep for a FREE sample!**

## Chemicals (continued)



(continued)

### DPD Chlorine Reagent Dispenser

Simply squeeze the handle and a perfect dose of DPD reagent (Free or Total, 10 ml size) is dispensed directly into the test sample. Our DPD reagents are a direct replacement for Hach® reagents, so users can get the same results but at a more economical price.

DPD reagents from Lovibond® Tintometer® are US EPA approved for Drinking water analysis. They have also been specifically formulated to work in Hach® and other manufacturers' test kits, colorimeters and spectrophotometers.

Hach is a registered trademark of the Hach Company, Loveland, CO.

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>C995D43</b>	194900	DPD Free Chlorine Reagent, 10 mL	0 - 2.00	250 tests
<b>C995D44</b>	530141	Replacement Reagent, Free Chlorine, 10 mL	0 - 150	250 tests
<b>C995D45</b>	530140	Replacement Reagent, Free Chlorine, 10 mL	—	500 tests
<b>C995D47</b>	194910	DPD Total Chlorine Reagent, 10 mL	0 - 2.00	250 tests
<b>C995D48</b>	530151	Replacement Reagent, Total Chlorine, 10 mL	—	250 tests
<b>C995D49</b>	530160	Replacement Reagent, Total Chlorine, 10 mL	—	500 tests

### Alkaline-Cyanide Reagent Solution

Thomas No.	Mfr. No.	Pkg. Size
<b>1226X42</b>	530620	60 mL
<b>1213K84</b>	530621	100 mL
<b>1213K85</b>	530622	500 mL

### PAN Indicator Solution

Thomas No.	Mfr. No.	Pkg. Size
<b>1226X44</b>	530630	60 mL
<b>1213K86</b>	530631	100 mL
<b>1213K87</b>	530632	500 mL

### Thermo Scientific Nalgene Safety Waste Systems

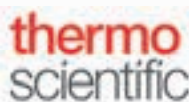
#### Ideal for temporary waste containment

- Easy-snap safety latch on lid
- Lid/vent system reduces volatile emissions
- Wide mouth funnels for easy pouring
- Safer than glass

HDPE and PTFE material construction resists most common lab solvents, acids and bases. Removable neck screen prevents bar entry into waste bottle. Lid latch prevents spillage if accidentally tipped over and filter prevent fume escape.



Thomas No.	Mfr. No.	Description	Each
<b>9775H56</b>	6379-0004	4 L Container with 5.5 in. Funnel	1
<b>9775H58</b>	6379-0010	10 L Container with 10 in. Funnel	1



### ISE Ionic Strength Adjustors (ISA) & Special Reagents

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4210F41</b>	940909	TISAB II for Fluoride Electrode	1 Gallon (3.8L)
<b>4210F40</b>	940999	TISAB II for Fluoride Electrode	4 x 1 Gallon (3.8L)
<b>4210F37</b>	940911	TISAB III Concentrate for Fluoride Electrode	475 mL
<b>4209N52</b>	951211	ISA For Ammonia Electrode	475 mL
<b>4210E87</b>	841111	ISA for Sodium Electrode	475 mL
<b>4210S45</b>	930710	ISA for Nitrate Electrode	475 mL
<b>1208Q86</b>	951213	Storage Solution for Ammonia Electrode	475 mL
<b>0732H79</b>	941709	Complexation Ionic Strength Adjuster (CISA) for Chloride Electrode	2 x 1 L

### ISE Calibration Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>0732L84</b>	941105	Sodium Standard, 10ppm as Na+	475 mL
<b>4210E90</b>	941107	Sodium Standard, 100ppm as Na+	475 mL
<b>4210N35</b>	941706	Chloride and Sodium Standard, 0.1M NaCl	475 mL
<b>4210N40</b>	941707	Chloride Standard, 100ppm as Cl-	475 mL
<b>0732G69</b>	941708	Chloride Standard, 1000ppm as Cl-	475 mL
<b>4210F30</b>	940907	Fluoride Standard, 100ppm as F-	475 mL
<b>4210B35</b>	922006	Calcium Standard, 0.1M CaCl2	475 mL

### pH Electrode Solutions

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1234J80</b>	810001	Ross pH Electrode Storage Solution	475 mL
<b>1234J81</b>	910004-WA	Electrode Storage Bottle	475 mL
<b>4153W25</b>	910001	Orion pH Electrode Storage Solution	475 mL
<b>4153W50</b>	810007	Orion Reference Fill Solution 3M KCl	50 mL

### pH 4.01 Pink pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L75</b>	910104	pH 4.01 Buffer, Color Coded Pink	475 mL
<b>1226F99</b>	9104CB	pH 4.01 Buffer, Color Coded Pink	19 L
<b>4120L55</b>	910410-WA	pH 4.01 Buffer, Color Coded Pink	10 Pouches
<b>4120L57</b>	910425	pH 4.01 Buffer, Color Coded Pink	25 Pouches

### pH 7.00 Yellow pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L80</b>	910107	pH 7.00 Buffer, Color Coded Yellow	475 mL
<b>1226G00</b>	9107CB	pH 7.00 Buffer, Color Coded Yellow	19 L
<b>4120L60</b>	910710	pH 7.00 Buffer, Color Coded Yellow	10 Pouches
<b>4120L62</b>	910725	pH 7.00 Buffer, Color Coded Yellow	25 Pouches

### pH 10.01 Blue pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L85</b>	910110	pH 10.01 Buffer, Color Coded Blue	475 mL
<b>1226G02</b>	9110CB	pH 10.01 Buffer, Color Coded Blue	19 L
<b>4120L66</b>	911010	pH 10.01 Buffer, Color Coded Blue	10 Pouches
<b>4120L67</b>	911025-WA	pH 10.01 Buffer, Color Coded Blue	25 Pouches

### All In One pH Buffer Kit

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1233M21</b>	910199	pH 4.01, 7.00 & 10.01, Electrode Storage Solution, & Electrode Storage Bottle	475 mL



### Ascorbic Acid

Reagent for aluminum determination by the aluminon method (Method 8012), manganese determination by the PAN method (Method 8149) and total chelant determination by titration (Method 8350)

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E28	1457799	Ascorbic Acid Powder Pillows	100

### BOD Nutrient Buffers

For preparation of BOD5 dilution water

Thomas No.	Mfr. No.	Description	Pkg. Size
3241A14	1416066	BOD Nutrient Buffer Pillows, 300 mL	50
3241A16	1486166	BOD Nutrient Buffer Pillows, 3 liter	50
3241A17	1486266	BOD Nutrient Buffer Pillows, 6 liter	50

### BOD Standard Solution

For accuracy checks in Biochemical Oxygen Demand (BOD) determinations

Thomas No.	Mfr. No.	Description	Pkg. Size
3241A19	1486510	BOD Standard Solution, 300 mg/L, 10-mL Voluette® Ampules	16

### COD Digestion Vials

For determination of low range Chemical Oxygen Demand (COD) by the Reactor Digestion method. US EPA approved for wastewater analysis using Hach Method 8000. Range: 3-150 mg/L COD.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241E18	2125815	COD Digestion Vials, Low Range	150
1220C19	2125915	COD Digestion Vials, High Range	150

### DPD Free & Total Chlorine Reagents

For free chlorine determination by the DPD Free Chlorine method. US EPA accepted for reporting for drinking water analysis using Hach Method 8021. Range: 0.02 to 2.00 mg/L Cl<sub>2</sub>. Sample Size: 10 mL.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241D45	2105528	DPD Free Chlorine Reagent Powder Pillows, 10 mL	1000
9866Q01	2105569	DPD Free Chlorine Reagent Powder Pillows, 10 mL	100
3241D48	2105628	DPD Total Chlorine Reagent Powder Pillows, 10 mL	1000
9866N97	2105669	DPD Total Chlorine Reagent Powder Pillows, 10 mL	100
3241D52	1407028	DPD Free Chlorine Reagent Powder Pillows, 25 mL	1000
9866Q59	1407099	DPD Free Chlorine Reagent Powder Pillows, 25 mL	100

### FerroVer® Iron Reagents

For determination of Iron by the 1, 10 phenanthroline method. US EPA approved method for reporting wastewater analysis using Hach Method 8008

The FerroVer method recovers total soluble ferrous and ferric iron, as well as complexed iron compounds and many insoluble iron forms. Range: 0.02 to 3.00 mg/L.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q15	2105769	FerroVer® Iron Reagent Powder Pillows, 10 mL	100

### Lauryl Tryptose (with MUG) Broth Tubes

Selectivity: Total Coliform Bacteria and Escherichia coli

Lauryl Tryptose Broth with MUG provides a selective medium which is used for enumeration of E. coli and other coliform bacteria in water using the Most Probable Number (MPN) method.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241T61	2182115	Lauryl Tryptose (w/MUG) Broth Tubes, Concentrated	15
3241T62	2217515	Lauryl Tryptose (w/MUG) Broth Tubes, Single Strength	15

### m-FC with Rosolic Acid

m-FC with rosolic acid is used to detect and enumerate fecal coliforms in wastewater using the membrane filtration method

Thomas No.	Mfr. No.	Description	Pkg. Size
9866H59	2428550	m-FC with Rosolic Acid, 2 mL plastic ampules	50

### NitraVer® 5 Nitrate Reagent

For determination of MR and HR nitrate by the NitraVer® 5 cadmium reduction method

Hach methods 8039 and 8171 Range: 0.1 to 10.0 or 0.3 to 30.0 mg/L as nitrate-N.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q19	2106169	NitraVer® 5 Nitrate Reagent Powder Pillows, 10 mL	100

### Nitrification Inhibitor for BOD

Formula 2533™, TCMP

Thomas No.	Mfr. No.	Pkg. Size
3241A28	253334	500 g
3241A29	253335	35 g

### NitriVer® 3 Nitrite Reagent

For determination of low range nitrite by the NitriVer® 3 diazotization method

USEPA accepted for reporting wastewater analysis using Hach Method 8507. Range: up to 0.30 mg/L NO<sub>2</sub>-N.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241J68	2107169	NitriVer® 3 Nitrite Reagent Powder Pillows, 10 mL	100



# Chemicals (continued)



(continued)

## Nitrogen-Ammonia Standard Solution

For accuracy checks in ammonia nitrogen determinations

Thomas No.	Mfr. No.	Description	Pkg. Size
3241N11	189149	Nitrogen-Ammonia Standard Solution, 1 mg/L	500 mL
3241D22	2406549	Nitrogen-Ammonia Standard Solution, 100 mg/L	500 mL
3241B83	2354153	Nitrogen-Ammonia Standard Solution, 1000 mg/L	1 L

## Phenol Red Indicator Solution

Phenol Red Indicator Solution. Standardized for colorimetric pH determination. Color range: pH 6.0-8.5. Bottle/50 mL spec. grade

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q37	2657512	Phenol Red Indicator Solution, Spec. Grade	50 mL

## PhosVer® 3 Phosphate Reagent

For determination of reactive (ortho) phosphate (phosphorus) by the PhosVer® 3 ascorbic acid method

US EPA accepted for reporting for wastewater analysis using Hach Method 8048, Phosphorus, Reactive. Also used in acid-hydrolyzable and total phosphorus determination, after appropriate digestion.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q39	2106069	PhosVer® 3 Phosphate Reagent Powder Pillows, 10 mL	100

## Test Strips

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E29	2745050	Free & Total Chlorine Test Strips, 0-10 mg/L	50
1223H13	2745650	pH Test Strips, 4-9 pH units	50
1224X03	2755250	5 in 1 Water Quality Test Strips	50
1222V77	2755325	Ammonia (Nitrogen) Test Strips, 0-6.0 mg/L	25

## Silicone Oil

SCDB

Thomas No.	Mfr. No.	Pkg. Size
1232E30	126936	15 mL

## Chlorine Reagent Sets

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E29	2745050	Chlorine Test Kit	50
3241D95	2438800	Chlorine (Free and Total) Reagent Sets	1

Traceable® pH Standards, Certified Reference Materials, are 100% compatible with all instruments and probes. Accuracy for the Traceable® Buffers at 25°C is  $\pm 0.010$  pH—the most precise available. Certified Reference Materials meet Federal/State/local agencies' strictest mandates and deliver exact calibration results for any pH meter. Every container is supplied with an individual temperature compensation chart, traceability information, and Traceable® Certificate.



## Traceable® pH Buffer Standard Certified Reference Material (CRM)

Thomas No.	pH	Pkg. Size
1218M88	4.005	473 mL
1218M89	7.000	473 mL
1218M90	7.146	473 mL
1218M91	10.012	473 mL

## Traceable® One-Shot™ pH Buffer Standard Certified Reference Material (CRM)

Thomas No.	pH	Pkg. Size
1218M92	4.005	100 mL
1218M93	7.000	100 mL
1218M94	7.146	100 mL
1218M95	10.012	100 mL

Thomas®

## Traceable Conductivity Calibration Standards

Sixteen ounces of liquid for frequent calibration needs

- Highest accuracy available
- Units labeled (micromhos/millisiemens, ohms, parts per million/TDS)
- Includes step-by-step calibration instructions and temperature chart
- 100% compatible with all makes of equipment



Thomas No.	Description	Each
1235C71	Standard, Conductivity, Traceable®, 10 mS, NIST/17025 Cert	1
1235C72	Traceable® Conductivity Standard, 100 mS, NIST/17025 Cert	1
1235C73	Traceable® Conductivity Standard, 1,000 mS, NIST/17025 Cert	1
1235C74	Traceable® Conductivity Standard, 10,000 mS, NIST/17025 Cert	1
1235D69	Traceable® Conductivity Standard, 1 mS, NIST/17025 A2LA Cert	1
1235D44	Traceable® Conductivity Standard, 5 mS, NIST/17025 A2LA Cert	1
1235D39	Standard, Conductivity, Traceable®, 10 mS, NIST/17025 A2LA Cert	1
1235D40	Traceable® Conductivity Standard, 100 mS, NIST/17025 A2LA Cert	1
1235D41	Traceable® Conductivity Standard, 1,000 mS, NIST/17025 A2LA Cert	1
1235D45	Traceable® Conductivity Standard, 1,413 mS, NIST/17025 A2LA Cert	1
1235D42	Traceable® Conductivity Standard, 10,000 mS, NIST/17025 A2LA Cert	1
1235D43	Traceable® Conductivity Standard, 100,000 mS, NIST/17025 A2LA Cert	1
1222W07	Conductivity Calibration Standard CRM150k micmhs	1
1222W08	Conductivity Calibration Standard CRM200k micmhs	1
1222W15	Conductivity Calibration Standard CRM150k mcms ind	1
1222W16	Conductivity Calibration Standard CRM200k mcms ind	1

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## Are you taking advantage of all that Thomas Scientific has to offer?

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Thomas Scientific offers our customers many ways to save. In addition to our competitive pricing, customers can take advantage of special offers through *LabBUYER*, *LabBASICS*, *Safety Spotlight*, and *Equipment and Instrumentation Source Guide*.

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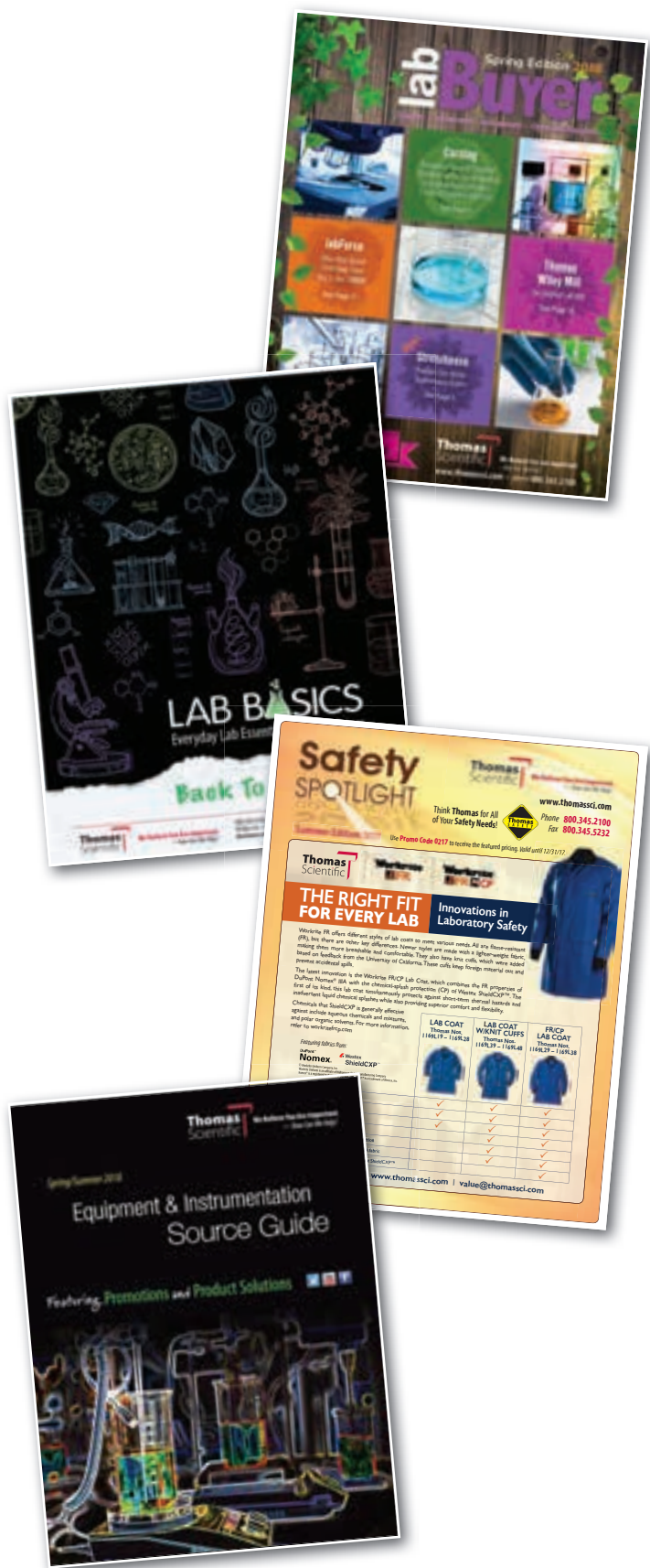
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