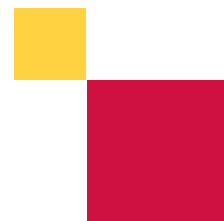


BIO-PROCESSING SOLUTIONS



WHY YOU SHOULD CONSIDER SINGLE-USE

More Specifics to Ensure Quality

Sterile assemblies are validated to a sterility assurance level of 10⁻⁶ per ISO 11137 method VDmax.

We have experienced engineers available for technical assistance supported by the suppliers.

- Thomas offers off the shelf or custom single-use products from a variety of suppliers.
- Advantages of Single-use products:
 - Reduce cross contamination
 - Available in pre-assembled configurations, saving production time and expense
 - Reduce overall cost by eliminating the cleaning process
 - Come with supporting documentation that ensures proper manufacturing standards were met
 - Manufactured in ISO Class 7 clean rooms or higher

Product Attributes

When considering using single-use products, it is important to work with a supplier that can provide products that meet your rigorous specifications and understands your complete supply-chain requirement from conceptual drawing to final use.

Understanding material of construction, fit and function, packaging and labeling requirements, as well as shipping and receiving documentation, are just a few examples of items to cross off your checklist.

We also recommend paying close attention to the temperature range, pH, and chemical compatibility of the product you intend to use.

Thomas offers sterile and non-sterile products (autoclavable, e-Beam, gamma irradiation, ETO) as well as different packaging varieties to meet the specific needs of your operation.

LeKrius® Single-Use 2D Storage Bag

LeKrius® storage bags include three categories: 2D storage bags, 2.5D storage bags, and 3D storage bags, covering volume specifications from 5ml-2500L and provide supporting containers and transfer equipment.

Typical Applications:

- Storage and transport of small-scale buffers and media
- Collection of purified fractions
- Sample collection
- Temporary storage and transportation of bulk intermediate products
- Appropriate liquid-liquid mixing process
- Raw solution harvesting, storage, and transshipment
- Shipping of the finished product

Advantage:

- LeKrius® film is completely independently developed and produced, with good physical strength, chemical compatibility and biocompatibility
- The membrane material is transparent, which is conducive to auxiliary process judgment
- It can meet the storage and transfer requirements of various feed liquids in the biopharmaceutical process
- The size, pipeline, joints and filters can be customized flexibly, suitable for various processes
- It can be matched with different support containers to meet the use requirements to the greatest extent

Click here for more information [LeKrius® Single-Use 2D Storage Bag](#)



PRODUCTS & PARTNERS SUPPORTED BY THE SINGLE-USE PROGRAM

Containers/ Vessels

Bags
Bottles
Carboys
Reactors
Tank Liners
Tanks
Sampling Tools
Pumps

Mixing Containers/ Equipment

Carboys
Oscillating Platform Mixer
Rocking Platform Mixer
Flasks
Centrifuges

Chemicals/Chromatography

USP-NF Grade Chemicals
BP-EP-JP Grade Chemicals
pH Buffers
Acids
Salts
Excipients
Ion Exchange, Mixed Mode,
Affinity Columns

Filtration

Syringe
Capsule
Tangential Flow
Bottle Top
Analytical Vacuum

Connectors/Fittings

Quick Connect and Disconnect
Aseptic Connectors
Luer Lock
"X", "Y", "T" Connectors
Sanitary
NPT
Flanges
Gaskets and Clamps

Tubing

Pharma Grade Silicone
Pharma Grade Braided
Pump Tubing
General Use

Cell Culture

Biological Buffers
Medical/Serum Supplements
Dishes
Flasks
Filter Units
Roller Bottles
Cell Factories
Bioreactors

PPE

Gloves
Masks
Labcoats
Sleeves
Safety Glasses/Sterile Goggles
Coveralls
PAPR Systems

Thomas offers a large variety of products from a long list of vendors you trust.

Directly off the shelf and ready to ship, Thomas offers everything you need.



BIOPROCESSING INNOVATIONS

HELIX Oscillating Biomixer

The patented HELIX Oscillating Biomixer® is a highly versatile mixer with multiple uses. We designed it as a pilot and small batch, self-mixing, closed system mixer that eliminates problems associated with traditional vessels. When used with our programmable Turn-Table, any mixing profile can be applied depending on the raw material characteristics. Low-shear, sensitive cellular work is possible with one program and difficult powder can be accomplished with another, all with the same equipment. The lightweight and leak-proof HELIX is constructed of Class VI polypropylene and can be sterilized in an autoclave and there is no need to open after components are charged thus minimizing contamination risk.

Click here for more information and a video demonstration [HELIX Oscillating Biomixer](#)



CPC® AseptiQuik G Connector, Hose Barb Genderless

Genderless AseptiQuik® G connectors enable quick and easy sterile connections, even in non-sterile environments. The connectors' robust construction provides enhanced user confidence and reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers benefit from a full range of interchangeable 1/4" to 3/4" flow solutions with the quality and market availability they expect from the leader in single-use connection technology.

Click here for more information [CPC® AseptiQuik G Connector, Hose Barb Genderless](#)



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