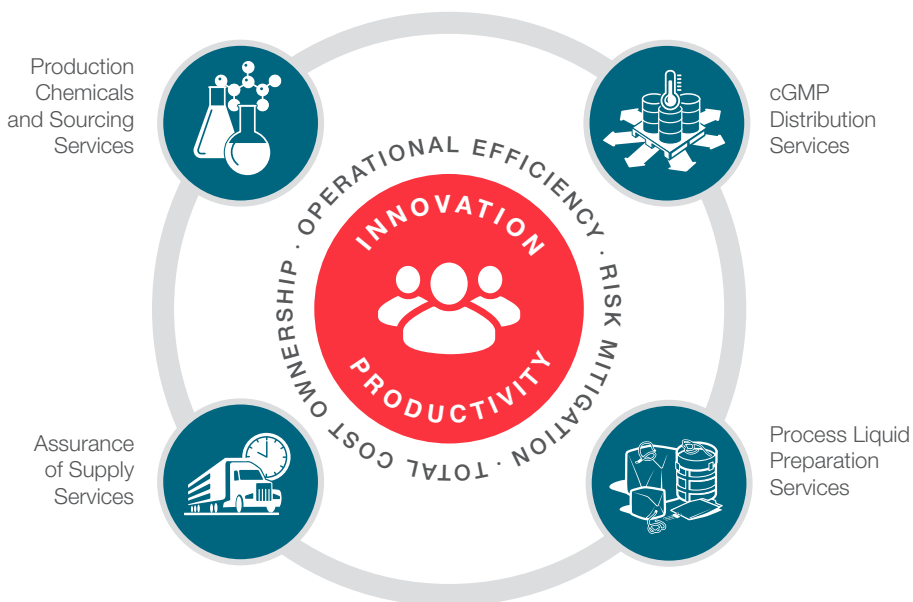


Thermo Scientific Production Chemicals and Services

Our customers — our focus

We help accelerate innovation and enhance productivity for our customers.



Production Chemicals and Sourcing Services

Mitigate risk

Chemical Categories

- Acid/Base solutions
- Amino acids
- Biological buffers
- Biological reagents
- Carbohydrates (sugars)
- Cleaning agents and disinfectants
- Denaturants
- Emulsifiers
- Media supplements
- Minerals
- Salts
- Solvents
- Vitamins

Suppliers

- Avantor
- Spectrum



cGMP Distribution Services

Consolidate distribution workflows

- Order Management
- Procurement
- Material Receipt & Handling
- Outbound Logistics Management
- Quality Management System
- Technology Systems
- Direct Material Supply Chain Process Mapping & Assessment



Assurance of Supply Services

Ensure supply availability with short lead times and high OTIF performance

- Custom Stocking Agreements/ Inventory Management from the U.S.



Process Liquid Preparation Services

Simplify process liquid and buffer manufacturing

Since your workflow is unique to you, let us collaborate to build a fit-for-purpose solution[†] that meets your facility's specifications. **Process Liquid Preparation Services** simplifies preproduction workflows—both upstream and downstream—by delivering process liquid and buffer preparation solutions that enable you to produce life-changing therapeutics and vaccines, faster.

Dry powders

Pre-made liquids



Standard packaging

Chemicals in standard, supplier-designated packaging, ready for weighing, dispensing, and hydrating



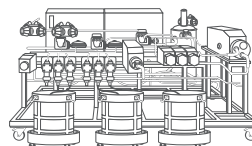
Trusted-weight pack sizes

Chemicals pre-weighed and packaged to customer specifications, ready for dispensing and hydrating



Ready-to-connect containers

Chemicals in customer-specified packaging for ease of tank connection, ready for hydrating



Concentrated stock solutions

Concentrates packaged in bioprocess containers (BPCs), ready for in-line dilution



Ready-to-use (1X) process liquids/buffers

Hydrated chemicals packaged in bioprocess containers (BPCs), ready for production jobs

Custom weighed and dispensed product available through Process Liquid Preparation Services via the U.S.

Thermo Scientific Production Chemicals and Services[™] works with biologic developers and manufacturers who want to do what matters most, innovate and produce life-changing therapeutics. With over 30 years of experience delivering production chemicals and direct material supply chain solutions, we deliver risk mitigation, improved operational efficiencies, and reduced total cost of ownership so our customers can accelerate their speed to market, speed to clinic, and improve productivity.

Find out more at: thermofisher.com/innovateproductivity

China

免费服务电话: +800 810 8982/400 820 8982
销售服务信箱: sales.china@thermofisher.com
技术咨询信箱: lifescience-cn@thermofisher.com

Japan

BioProduction Division
Phone: +81 368 726 230
Email: JPbioproduction@thermofisher.com

Korea

Thermo Fisher Scientific BioProduction Team
Phone: 02-2023-0600
Email: KR-BPD@thermofisher.com

USA

U.S. Customer Service: +919-598-1986

Europe

EU Customer Service: +00353 1 899 1880

[†] Available as custom weighed and dispensed product through Process Liquid Preparation Services via the U.S.

*Certified ISO 9001:2015 Quality Management System incorporating applicable elements of 21 CFR parts 210 & 211 and The IPEC Good Distribution Practices Guide.

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