

KNOWING YOUR CELL CULTURE MEDIA



Lack of consistency in cell culture media can create significant variation in your upstream process. Our supply chain experts are committed to providing you with the highest quality and most consistent cell culture media — regardless of manufacturing site location.

MANUFACTURING LOCATIONS

- Liquid Centers**
 St. Louis, MO USA
 Irvine, Scotland, UK
 Nantong, China
- Dry Powder Media Centers**
 Lenexa, KS USA
 Irvine, Scotland, UK
 Darmstadt, Germany
- imMEDIATE ADVANTAGE® Centers**
 Lenexa, KS USA
 St. Louis, MO USA
 Nantong, China
 Songdo, South Korea



RAW MATERIALS

Global Raw Materials Vendor Management Program



Understanding Trace Element Variability

The role of trace elements and the impact on protein and product quality is well documented. We offer the right data to begin understanding this variability.

- Quantitative testing by ICP-MS
- Cu, Mn, Zn, Mo, Ni, V, Al, Se, Cr, Co
- Results reported on the CofA

- Manufacturing plant
- New manufacturing facility
- Redundant supply facility
- R&D centers for cell culture media & related products



High-quality products, comprehensive documentation, and superior customer support for qualification, risk assessment, and process optimization. Now available for a range of cell culture media.

www.MerckMillipore.com/emprove

MANUFACTURING CAPABILITIES

Our global network of manufacture sites are specifically designed and operate to exceed industry standards for cell culture media intended for bioprocesses.

Custom Capabilities Large Scale

- Clinical to commercial supply
- Liquid: 50 - 10,000 L batch sizes
- Dry powder: 25-6000 kg batch sizes

Custom Capabilities Small Scale imMEDIATE ADVANTAGE® Services

- Pre-GMP product intended for bioprocess development studies
- Liquid; 1-200L batch sizes
- Powder: 0.5 - 20kgs batch sizes



Raw Materials
Option to use unique, non-qualified raw materials for your experiments



Documentation to Support
Certificate of analysis and safety data sheet with each batch



Right Technology & Processes
Equivalent liquid and dry powder manufacturing methods as compared to large scale facilities



Design Support
Let one of our R&D teams or our designs specialist help you develop your custom cell culture media.

Redundant Supply Facilities

We know the challenges global biopharma companies can have with securing dual source of cell culture media. We provide the solution by offering two sister sites-same technology, single source of raw materials and global quality management to deliver dual sourcing from one supplier.

Lenexa, KS, US

Irvine, UK

Learn more
MerckMillipore.com/ccmsupply



GLOBAL QUALITY MANAGEMENT



Global Quality Management System

Our cell culture media sites are certified as ISO 9001:2015
 * Voluntarily comply to the Joint IPEC-PQG Guide on Good Manufacturing Practices for Excipients and applicable sections of Annex 1 of the EU Guidelines to Good Manufacturing Practice for Medicinal Products. Apply to Lenexa, St. Louis-Broadway, Irvine, Darmstadt, and Nantong (liquid) sites.

NEW! IPEC-PQG compliance*



Quality Control

Standard testing with options to add customized quality testing.

Finished Product Testing	Methodology	NA	EU	China
Appearance	Uniformity/color	•	•	•
pH	USP 791	•	•	•
Osmolarity	USP 785	•	•	•
Bioburdon (Powder)	USP 61	•	•	•
Sterility (Liquid)	USP 71	•	•	•
Endotoxin	USP 85 (Kinetic, Chromogenic, Gel clot LAL)	•	•	•



Quality Services: Customer Inquiries



TIER 1
Front Line Contact
Product documentation, Q&A



TIER 2
Technical & Quality Workflows
Appropriate team support



TIER 3
Expert Support
Scientific or site expert support

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

SAFC®

Pharma & Biopharma
Raw Material Solutions