Plasma Processing Capabilities

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.
Plasma Production Capabilities

**Immunoglobulin**

**Precipitation Steps & Dissolution of Fraction Paste II & III**
- Pharma Raw Materials
- Emprove buffer, salts, stabilizers

**Ultrafiltration/Diafiltration**
- Pellicon® Cassettes with Biomax® membrane
- Cogent® TFF Systems

**Clarification**
- Millistak® filters, housings & holders

**Virus Inactivation**
- Solvent/Detergent Raw Materials
- Mobius® Single-use solutions

**Chromatography**
- QuikScale® Columns
- Fractogel® TMAE Resins
- CIP Raw Materials

**Affinity Chromatography Anti A/b**
- Eshmuno® P Resins

**Anion Exchange Chromatography**
- QuikScale® Chrom Columns
- Fractogel® TMAE Resins

**Virus Removal**
- Viresolve® Pro Solution
- BioReliance® viral clearance testing

**Ultrafiltration/Diafiltration**
- Pellicon® Cassettes with Biomax® membrane
- Cogent® TFF Systems

**Single-pass TFF**
- Pellicon® 3 Cassettes with Biomax® membrane
- BioReliance® Process Development Services

**Final Fill**
- Excipients
- BioReliance® final product release testing

**Sterile Filtration**
- Series 3000 housings
- Durapore® filters

**Final Formulation**
- Mobius® Single-use solutions
- Novaseptum® Single-use sampling
- EMPROVE® Raw materials
Plasma Production Capabilities

**Albumin**

- **Precipitation Steps & Dissolution of Fraction V Paste**
  - Pharma Raw Materials
  - Empprove buffer, salts, stabilizers

- **Clarification**
  - Millistak® filters, housings & holders
  - CIP Raw Materials

- **Ultrafiltration/Diafiltration**
  - Pellicon® Cassettes with Biomax® membrane
  - Cogent® TFF Systems

- **Pasteurization**
  - Pellicon® Cassettes with Biomax® membrane
  - Cogent® TFF Systems

- **Final Formulation**
  - Mobius® Single-use solutions
  - Novaseptum® Single-use sampling
  - EMPROVE® Raw materials

- **Final Pasteurization Heat Treatment**
  - EMPROVE® Raw materials
  - BioReliance® viral clearance testing

- **Final Fill**
  - Excipients
  - BioReliance® final product release testing

- **Sterile Filtration**
  - Series 3000 housings
  - Durapore® filters
Factor VIII

Visit our M Lab™ Collaboration Centers
- Global network of 9 non-GMP labs
- Staff of technical experts to help solve process development challenges, troubleshoot processes and develop innovative techniques

Global Process Development Network
- Collaborate with more than 200 process development scientists, biomanufacturing engineers and process systems experts
- Onsite PD support, when you need it
Your Partner for Faster Blood Plasma Production

**Plasma Fractionators**
play a critical role in the treatment of rare life-threatening conditions. Consistent, reliable performance is key to plasma fractionation – and that means choosing a partner who understands your challenges of improving yield while maintaining process economics and managing ever-increasing regulatory requirements.

>15,000
Biomanufacturing products & services

30 years
of experience working with a broad range of Plasma platforms and systems

60
Manufacturing sites worldwide

**Simplify Complexity**
Consistent, reliable performance is the key to biomanufacturing success – and that means choosing a partner who understands your goals, and can supply everything you need from a single, proven source. With trusted products, deep bioprocessing expertise and unrivalled regulatory support, we can help you improve your product’s consistency and process efficiency.

**Millipore®**
The Millipore® portfolio offers an ecosystem of industry-leading products and services, spanning preparation, separation, filtration and monitoring – all of which are deeply rooted in quality, reliability and time-tested processes. Our proven products, regulatory and application expertise are a strong foundation you can rely on to consistently perform at the highest level.

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The SAFC® portfolio offers customized and ready-to-use raw material solutions, backed by deep regulatory expertise. Our high-quality products and services are supported by an experienced and responsive team of raw material and regulatory experts who are committed to understand your requirements and provide tailored solutions that meet your exact needs.

**BioReliance®**
The BioReliance® portfolio encompasses biopharmaceutical characterization, safety testing and process development, as well as clinical and commercial biomanufacturing. Our experienced teams and operational expertise make us the partner who supports you all the way and always has your vital goal in mind.