

PureStream™ Biobags & Tubing Sets

Single-Use Consumables Engineered for Biopharmaceutical Manufacturing

AES PureStream consumables, 2D and 3D biobags, bag manifolds, and platinum-cured silicone tubing assemblies—are manufactured in ISO-certified cleanrooms to deliver consistent, contamination-controlled fluid handling across upstream and downstream bioprocessing.

Every product is gamma-sterilized, fully traceable, and validated against USP and ISO biocompatibility standards, with standard and custom configurations available from R&D through commercial-scale production.



GAMMA IRRADIATION STERILIZATION

WHY AES CONSUMABLES

QUALITY WITHOUT COMPROMISE

Manufactured in ISO-certified cleanrooms with full product traceability and validation documentation.

CONTAMINATION CONTROL

Gamma-irradiation sterilization and routine environmental monitoring ensure product sterility.

SCALABLE SUPPLY

High-volume molding & extrusion supports research fulfillment through commercial-scale production.

FLEXIBLE & CUSTOM

Standard and bespoke assemblies, multiple sizes and connection options, dependable lead times.

PRODUCT LINEUP



PureStream 2D Biobag

- 100% leak tested
- Boat port, high configuration flexibility
- Capacity: 5 mL to 20 L



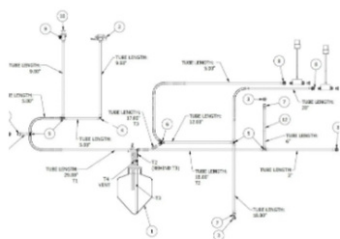
PureStream 3D Biobag

- Patented K-welding, leak-free welds
- Laser-marked data matrix traceability
- Capacity: 50 L to 3,000 L



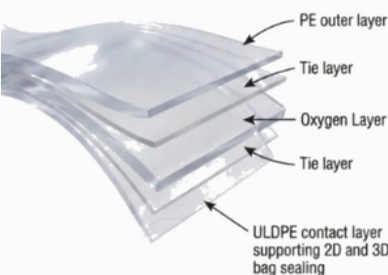
Bag Manifold

- Precision-engineered, consistent performance
- Optimized flow distribution & filtration
- Standard & bespoke configurations



Tubing Assemblies

- Platinum-cured silicone, GMP-grade
- Ultra-low extractables, -60°C to 220°C
- Buffer/media transfer, pumping, filtration



RENOLIT INFUFLEX 9101

PureStream Biobag Film Material

- Five-layer coextruded film, 0.325 mm total thickness, with a Polyethylene (PE) fluid contact layer
- Barrier film made of ultra-pure inert PE inner and outer layers
- High barrier oxygen layer (EVOH) supports oxygen-sensitive product storage
- **Ultra-low extractables/leachables levels & excellent clarity (97%)**

COMPLIANCE & STANDARDS

ISO 9001:2015

ISO 13485

ISO 7 Cleanroom

USP Class VI

ISO 10993 Series

USP <85> Endotoxin

Gamma Sterilized 25–40 kGy

100% Leak Tested