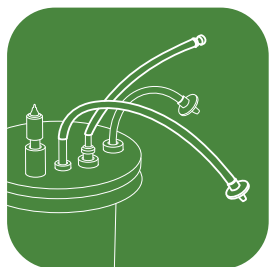


BIOREACTOR TUBING KITS

SINGLE-USE & CUSTOMIZABLE FOR BENCHTOP BIOREACTORS



SUS
www.advantapure.com

Bioreactor Tubing Kits are built-to-order and clean room packaged. The Single-Use kits are custom manufactured and assembled from a variety of components — tubing, filters, connectors — to offer faster turnaround time and increased processing capacity. Made from platinum-cured silicone or AdvantaFlex® biopharmaceutical grade TPE tubing, AdvantaPure's Bioreactor Tubing Kits provide convenience and greater efficiency.

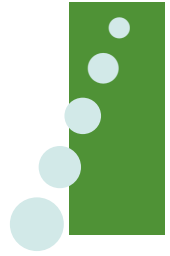
Full BPOG standardized extractables test protocol (six extraction solvents, tested to four different exposure times, out to 70 days) is in process with a fully-accredited, third-party test lab; applies to tubing only.

KEY FEATURES

- Components meet relevant ISO and USP standards, including Class VI
- Assembled and packaged in ISO 7 (Class 10,000) clean rooms
- AdvantaFlex TPE tubing is sterile weldable and heat sealable
- Tubing is certified free of animal-derived ingredients
- Documented quality control; lot traceable with identification on bags
- Tubing material validation and extractables test portfolios available upon request
- Optional RFID tags easily attach to assemblies for identification purposes
- Compounds used to make tubing have a Master File with the U.S Food and Drug Administration (APST Silicone Drug Master File #26598; AdvantaFlex TPE Drug Master File #28810)

BIOREACTOR TUBING KITS

SINGLE-USE & CUSTOMIZABLE FOR BENCHTOP BIOREACTORS



AdvantaPure's Bioreactor Tubing Kits:



- Offer faster turnaround time for your bioreactor and increase your processing capacity
- Decrease cross contamination risks
- Reduce repetitive motion injuries from assembly processes
- Minimize the number of inventoried components you need to stock
- Provide a single, animal-derived-ingredient-free material contact surface (both tubing and molded components)
- Design your ready-to-use assembly to your specifications

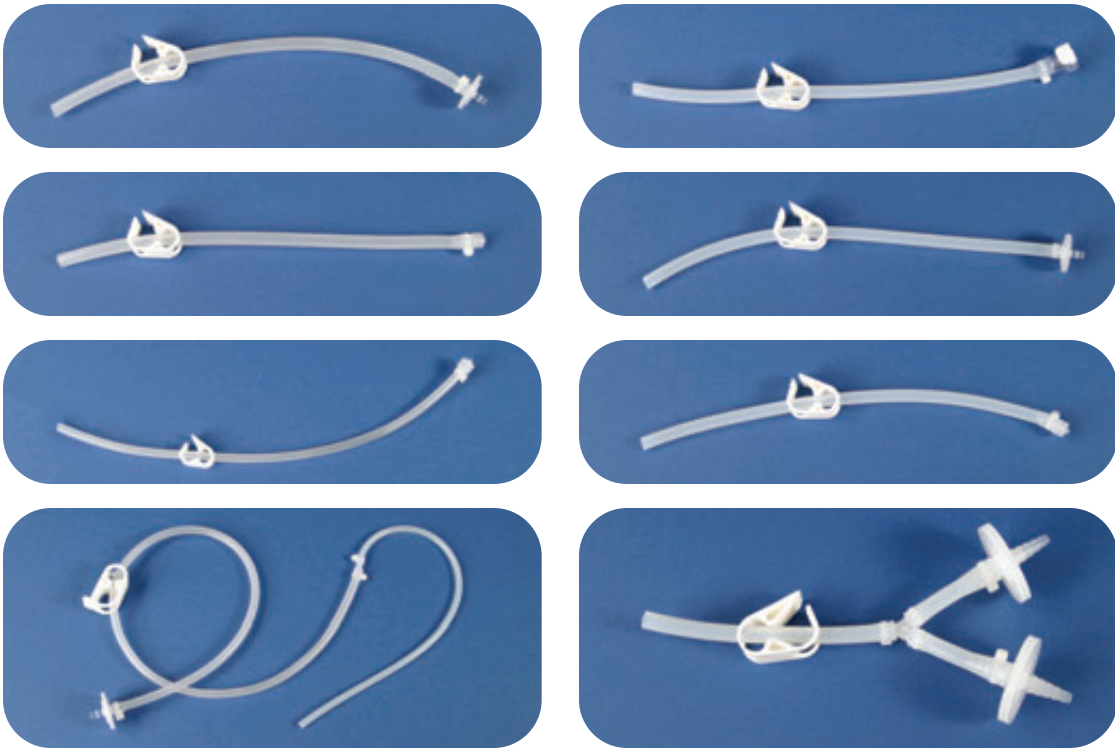
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■ Kits with AdvantaFlex® TPE tubing allow for easy welding and sealing.



Bioreactor Tubing Kits are Custom Assembled for Your Process

- Specify your tubing material and length for addition, vent, sparge and harvest lines.



- You identify the tubing sizes, materials and lengths, plus filters and connectors.



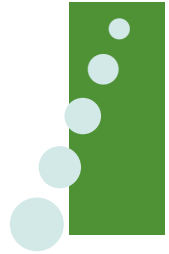
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- AdvantaFlex TPE lines are available with sealed ends; silicone lines are available plugged.

BIOREACTOR TUBING KITS

SINGLE-USE & CUSTOMIZABLE FOR BENCHTOP BIOREACTORS



Select from AdvantaFlex TPE Tubing or APST Silicone Tubing



AdvantaFlex[®] BioPharmaceutical Grade Tubing



AdvantaFlex addresses the need for a flexible, sterilizable, moldable, weldable and heat sealable biopharmaceutical tubing without silicone oils. AdvantaFlex maintains its physical properties following sterilization processes, remains translucent for visible product flow and does not become gummy. The tubing resists kinking and is an excellent component for Single-Use systems.

Learn more at www.advantapure.com/advantaflex.htm



APST UNREINFORCED SILICONE TUBING

Low-volatile grade, platinum-cured silicone tubing is cleanroom produced for critical pharmaceutical applications. APST has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993, European Pharmacopoeia 3.1.9, and 3-A standards.



Learn more at www.advantapure.com/apst-silicone-tubing.htm

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