

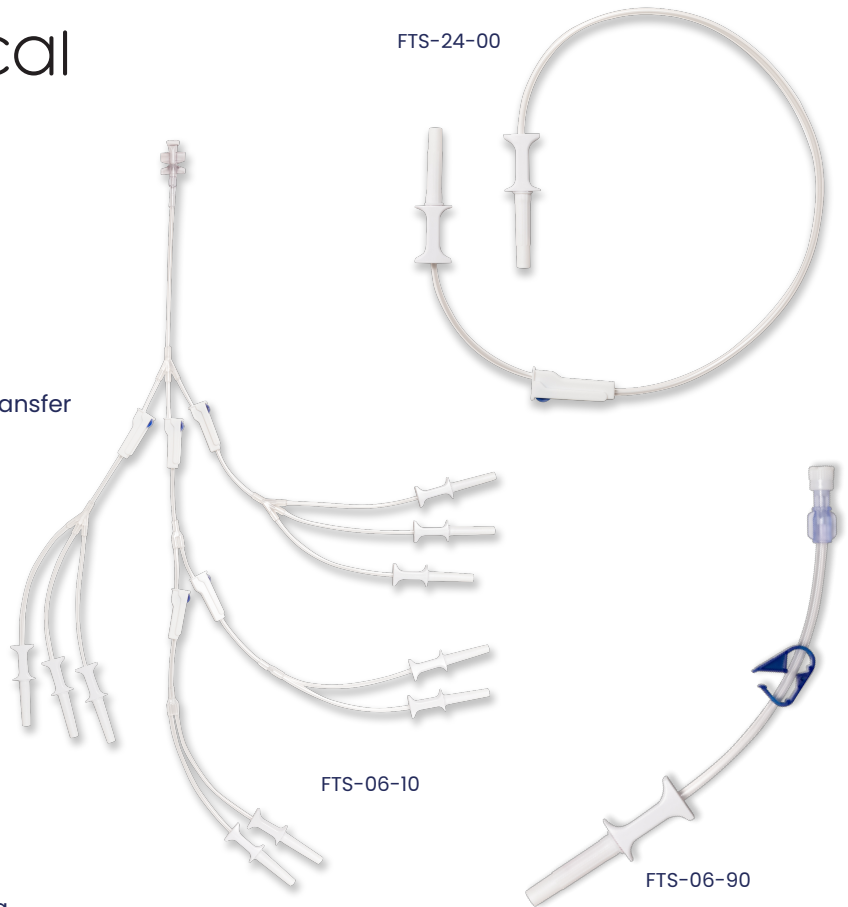
# Bioprocessing

## Fluid Transfer Sets

- Designed for bioprocessing and transfer of sterile fluids from one container to another
- Reduce contamination risk through secure fluid transfer
- Connect to transfer packs/bags for single-unit transfer, sample removal, and product transfer
- Supports bioprocessing in research and manufacturing
- BSE / TSE statement available
- REACH / RoHs Compliance statement available

### Benefits

- DEHP-free materials
- IPA-compatible luers
- Optimized tubing length for process flexibility
- Tubing compatible with DMSO up to 20%
- Double-Tyvek® cleanroom-compatible packaging
- Compatible with sterile tube welding techniques



### Custom Design Service

- Customize fluid transfer set solutions from concept to prototype
- Compatible with Charter and industry-standard componentry
- Enables custom sampling solutions and integration of aseptic connections

### Standard Applications

Designed for bioprocessing and sterile transfer of media, biologics, and drug substances from one container to another

## Ordering Information

Catalog #	Description	Case Qty	Tubing Length	Configuration Option
FTS-24-00	Bioprocessing Fluid Transfer Set 24" PVC	60	24"	10-lead w/ port adapter
FTS-06-XL	Bioprocessing Fluid Transfer Set 6" with Syringe	60	6"	Spike adapter and luer
FTS-06-10	Bioprocessing Fluid Transfer Set - 10-lead Harness	24	6"	Spike adapter and syringe
FTS-06-90	Bioprocessing Fluid Transfer Set 6" with Spike Adapter	60	6"	Double spike adapter



## Tubing Biocompatibility

### Physical Test Data\*

Property	Test Protocol	Value
Hemolysis	ISO-10993-4	Pass
Cytotoxicity	ISO-10993-5	Pass
Sensitization	ISO-10993-10	Pass
Intracutaneous	ISO-10993-10	Pass
Systemic Toxicity	ISO-10993-11	Pass

\*post-gamma irradiation

### Chemical Test Data\*

Property	Test Protocol	Value
Tests for reducing matter	ISO 8536-4 Annex B.2	Pass
Tests for metal ions	ISO 8536-4 Annex B.2	Pass
Tests for titration acidity or alkalinity	ISO 8536-4 Annex B.2	Pass
Tests for non-volatile residue	ISO 8536-4 Annex B.2	Pass
Tests for absorption	ISO 8536-4 Annex B.2	Pass

\*post-gamma irradiation

## Standard Component Library

Customize fluid transfer set solutions from concept to prototype by utilizing components within our standard component library.

### Compatible Tubing

DEHP-free PVC  
.116" ID X .160" OD

### Compatible Products

Freeze-Pak™ Bio-Containers  
Cell Freeze® Cryogenic Containers  
Cell Expansion Containers  
Fluid Transfer Bags  
Blood Transfer Bags

### Compatible Connectors

Spikes  
Female Luer Adaptors (Non-ABS)  
Male Luer Adaptors (Non-ABS)  
Spike Port Adapters  
Syringes  
Sampling Valves  
Piercing Pins  
Aseptic Connectors  
3-Way Connector  
4-Way Connector  
Y Connector

### Clamps

Pinch Clamps  
Slide Clamps

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