

Link to Enable Biotechnologies

Bio-Link provides products and process solutions in the life sciences industry. We focus on the development and production of the key processing equipment and consumables for recombinant protein drugs, vaccines, antibodies, cell therapies, gene therapies and other biological products. Our portfolio of offerings cover the entire upstream and downstream bioprocess such as cell culture, single-use mixing and storage, protein chromatography, filtration and ultrafiltration, hydration as well as process development and validation services.

Fluid management	<ul style="list-style-type: none"> Mixing and storage hardware and consumables (M/P/S/C/customized) 	<ul style="list-style-type: none"> Storage bottle (PC/PS) 	<ul style="list-style-type: none"> Assembling components
Hydration Products	<ul style="list-style-type: none"> Water for injection 	<ul style="list-style-type: none"> Buffer/Process liquid 	<ul style="list-style-type: none"> Customized products
Downstream protein chromatography	<ul style="list-style-type: none"> Chromatography resins: 	<ul style="list-style-type: none"> Size exclusion chromatography Affinity chromatography Multimodal Chromatography 	<ul style="list-style-type: none"> Polymer Ion exchange chromatography Hydrophobic interaction chromatography Hydroxyapatite

Quality Management System Certificate



Nantong Single-use Bioprocessing Manufacturing Site



Lanzhou Chromatography Resins Manufacturing Site

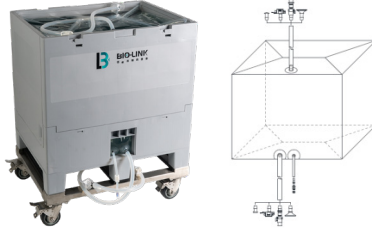
Fluid Management

BioHub® 2D storage bag



Bag chamber volumes: 5 mL ~ 50 L
Multiple fitting & tubing configurations
Optional films for customization

BioHub® Cubic foldable plastic bin + Matched storage bag



Volume: 50/100/200/250 500/1000 L

**BioHub® S Needle sampling bag
Needle sampling bottle**



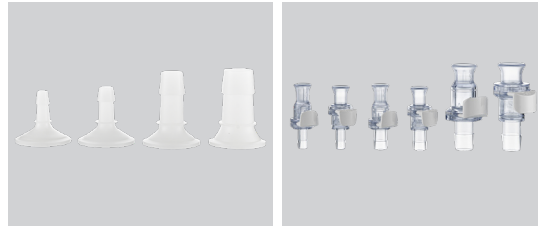
Volume: 50mL, 100 mL, 250 mL, 500 mL, 1,000 mL	Volume: 20 mL, 50 mL, 125 mL, 250 mL
Configuration: single-needle, single-bag; single-needle, 5-bag	Configuration: single-needle, single-bottle; single-needle, 5-bottle
Fitting type: needle sampling valve (single-needle/dual-needle)	Fitting type: needle sampling valve (single-needle/dual-needle)

BioHub® Single-Use Storage Bottles



Volume: 5 mL - 20 L
Cap without tubing: Regular, 2-port, 3-port
Cap with tubing: C-Flex tubing, silicone tubing

BioHub® PVDF Fittings



BioHub® fittings are available with a variety of straight connectors, reducers, tees (Y- and T-shaped), crosses, flange covers, clamps, and tri-clamps.

BioHub® DS Single-Use Desktop Mixer



World First — NovaLinX® RNase-free Disposable Consumables

Master bag + Innovative design of double satellite bags

- Identical material/production environment of master bag and satellite bag, consistent gamma irradiation conditions
- Supplier: Satellite bag 1, for releasing RNase-tested products
- Customer: Satellite bag 2, for pre-use or post-use RNase inspection



▶ ChromaX® Chromatography Resins

Hydroxyapatite Multimodal Chromatography



ChromLinX® Empty Chromatography Column 1 mL/4.7 mL/5 mL Chrom-Trap™ & Chrom-Screen™ Prepacked Chromatography Column



ChromaX® Chromatography Resins	Product category	
Size exclusion chromatography	<ul style="list-style-type: none"> • Chromstar 4FF/6FF • Chromstar CL-4B/CL-6B • Chromstar 4B/6B 	<ul style="list-style-type: none"> • Geldex PG series • Puredex G series • Puredex LH-20
Ion exchange chromatography	<ul style="list-style-type: none"> • MaXtar Q/DEAE/S • MaXtar Q/SP HR • MaXtar Q/SP HR XL • Q/SP Chromstar BB • O/DEAE/SP/S/CM Chromstar FF 	<ul style="list-style-type: none"> • Q/DEAE/SP/CM Chromstar HP • Q/SP Chromstar XL • Q/SP Chromstar BB XL • DEAE Puredex A50 • CM Puredex C25
Affinity chromatography	<ul style="list-style-type: none"> • Antibody purification • Histidine-tagged proteins purification • Immobilized metal ion affinity chromatography 	<ul style="list-style-type: none"> • GST-tagged proteins purification • Other types
Hydrophobic interaction chromatography	<ul style="list-style-type: none"> • MaXtar Phenyl (HS)/(LS) • MaXtar Butyl/Octyl • MaXtar Phenyl/Octyl/Buylt HR • Phenyl Chromstar 6FF (HS)/(LS) 	<ul style="list-style-type: none"> • Octyl/Butyl Chromstar 4FF • Butyl-S Chromstar 6FF • Phenyl/Butyl Chromstar HP
Multimodal chromatography	<ul style="list-style-type: none"> • MaXtar MMC • MaXtar MMC HR • MaXtar COLL 700 • MaXtar COLL 400 	<ul style="list-style-type: none"> • Maxtar MMA • Maxtar MMA HR • BaronCHT type I • BaronCHT type II
Polymer chromatography	<ul style="list-style-type: none"> • Maxgo series 	

▶ Hydration Products

▶ Comprehensive Validation and Analysis

- Continuous 15-day WFI test validation
- Weekly testing of WFI QC inspection
- In Process WFI quality control
- Filling line: first & end sampling inspection



Bottled (100 mL - 2L)



2D storage bad (500 mL - 20 L)

RNase-free WFI quality water available

Meeting multi-compendial (ChP, PhEur, USP, and JP) requirements

Services

Suzhou R&D Center

Upstream process Development

- Cell culture process development
- Stepless scale-up
- Process optimization

Downstream process Development

- Protein chromatography process development
- Stepless scale-up
- High-throughput process development
- Validation of resin service life

Training

- Application training
- Operation training

Bio-Link Validation and Analysis Center

Located in Nantong, Jiangsu, this center was established in February, 2022 and covers an area of 1,400 sqm. It is equipped with all kinds of large precision instruments, including inductively coupled plasma mass spectrometer, liquid mass spectrometer, gas mass spectrometer, TOC detector, automatic microplate reader, infrared detector, etc..

The center supports the analysis and detection of extractables and leachables, with a detection precision of up to PPT level. The platform is operated and managed in accordance with CMA and CNAS systems.



Extractable/Leachable study (E&L)

- Extractable study with BPOG & USP standard methods
- Leachable study of customers' feed liquid
- Risk assessment



Microbiology test (BSL2)

- Bacterial viability test
- Bacterial challenge test of virus removal filter
- Microbial limit test
- Sterility test



Filter validation

- Chemical compatibility study
- Product-wet integrity test
- Adsorption study
- Integrity test

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