



# Fabsorbent™ F1P HF



[www.astreabioseparations.com](http://www.astreabioseparations.com)

**Astrea**  
Bioseparations  
A Biotage Company

PURITY  
by DESIGN

# OUR TECHNOLOGY

Antibody fragments, such as Fab, scFv, and light chain fragments, offer therapeutic advantages, including smaller size, easier production, and improved tissue penetration. However, purification options for antibody light chain binding domains can be limited. Fabsorbent™ F1P HF offers a cost-effective alternative to Protein L, using a unique synthetic ligand for efficient antibody fragment capture and bispecific separation.

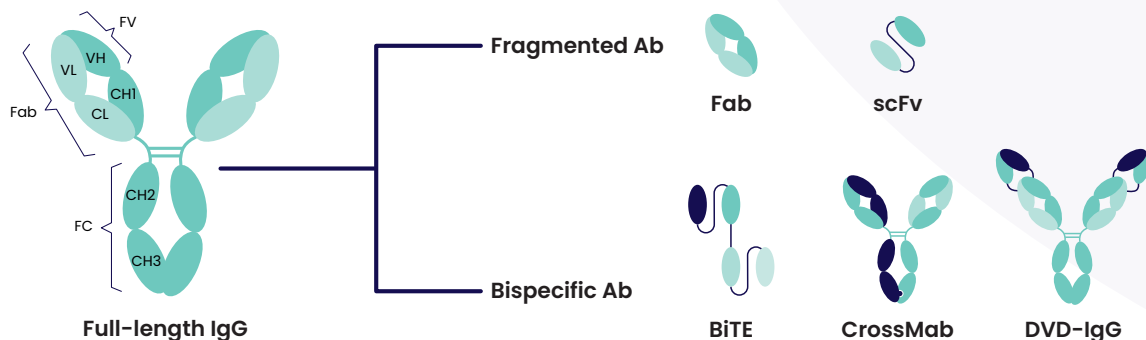
Fabsorbent™ F1P HF is a mixed-mode chromatography resin for the capture and purification of differing antibody binding regions. Fabsorbent™ F1P HF utilizes a unique synthetic ligand, offering a cost-effective alternative for antibody fragment and bispecific separation. Engineered for high performance, it streamlines downstream processing with efficient impurity removal and excellent scalability.

## Advantages

- **Effective host cell protein (HCP) clearance:** Outperforms market Protein L for HCP reduction, for a purer overall capture step
- **Optimized conditions:** Milder pH elution conditions (pH 5.0) for better fragment recovery, reducing likelihood of protein denaturing and aggregation
- **Flexible buffer compatibility:** Adaptable to various and existing purification workflows
- **Robust & scalable:** Suitable for both development and GMP-scale production. Available in both pre-packed and slurry formats

## Key features

- **Broad specificity:** Captures and purifies antibody binding regions, with affinity for both kappa and lambda chains
- **Higher purity:** Fabsorbent™ F1P HF shows superior purity compared to Protein L resin
- **Milder pH elution conditions:** Reduces protein denaturation and aggregation compared to Protein A or Protein L purification
- **Efficient cleaning:** Using 1.0 M NaOH for depyrogenation & regeneration, enabling reuse while maintain high endotoxin clearance and reducing operational costs
- **High flow properties:** Enables durability, high binding, and high-throughput purification, reducing process time. Supports rapid processing (up to 500 cm/hr, column-dependent)



# PRODUCT FORMATS

## Bulk manufacture & supply

Astrea Bioseparations supplies bulk adsorbents for developmental and regulated cGMP manufacturing applications in volumes sufficient to meet the requirements of the largest biomanufacturing processes. Our adsorbents are manufactured in Astrea Bioseparations' controlled environment manufacturing facility under an accredited ISO 9001 quality system and are supported by comprehensive regulatory support files.

## Ordering information

For small orders up to 500 mL, please visit our web shop. We also offer a range of pre-packed Fabsorbent™ columns and larger pack sizes for supply of bulk resins into cGMP development and manufacturing scale processes.

Fabsorbent™ F1P HF is available in a range of bulk resin volumes and pre-packed columns to meet different process requirements.

Pack Size	Product Code
25 mL	3904-00025
100 mL	3904-00100
500 mL	3904-00500
1 L	3904-01000

Astrea Bioseparations also offers a range of pre-packed screening columns including 1 mL and 5 mL column kits and a range of other larger pre-packed column solutions.

Pack Size	Product Code
1 mL	6732
5 mL	6733

## Astrea Bioseparations: A complete toolbox for antibody purification

Astrea Bioseparations provides a broad range of purification resins for mAb and other antibody formats, supporting both capture and polishing steps. Our toolbox approach enables tailored purification workflows using products such as Fabsorbent™ F1P HF, HCPure™, Q PuraBead®, and SP PuraBead® Edge. We offer high-throughput screening formats to streamline discovery and purification, driving efficiency in biopharmaceutical development and commercialization.



## Commitment to quality

Astrea Bioseparations is honored to support the biopharmaceutical industry with products and services that help bring life-saving and improving medicines to market. Regardless of process scale, we are ready to build Purity by Design into each process to ensure quality and speed to market.

## Technical support

Astrea Bioseparations provides expert technical support to help optimize purification strategies. Our chromatography specialists are available to assist with process development, troubleshooting, and scalability considerations.



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Fabsorbent™ F1P HF - V1

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