

# ZetaSep FPLC™ Desalting Columns

For desalting, removal of small molecules, and buffer exchange using liquid chromatography systems



ZetaSep FPLC Desalting Columns are designed for:

- Separating larger biomolecules (i.e. proteins such as antibodies, enzymes or larger nucleic acids) from unwanted smaller molecules.
- Buffer exchange, desalting, removal of low molecular weight contaminants, and reaction terminations.
- Simple, rapid and reproducible separation using a syringe, pump or liquid chromatography system.

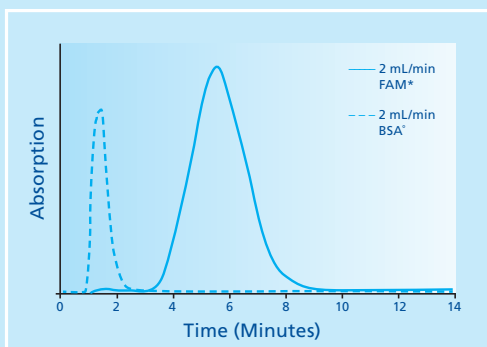
The fractionation range for globular proteins is between 1 and 5 kD.

The molecular weight cut-off (MWCO) is approximately 5 kD, which ensures efficient separation of proteins/peptides/biomolecules larger than 5 kD from lower molecular weight molecules of less than 1 kD.

ZetaSep Desalting FPLC Columns contain **Zetadex-25 Superfine**, a beaded composite size-exclusion matrix developed and manufactured by **emp BIOTECH**. It exhibits high flow rates, excellent resolution and chemical stability. Buffer and pH effects on resolution are minimal.



# ZetaSep FPLC™ Desalting Columns



## High Performance Results:

**Sample:** 1 mL of 2 mg/mL BSA & 100 µM of 5-Carboxyfluorescein in PBS pH 7.4 (0.05 % NaN<sub>3</sub>).

**Flow rate:** 2 mL/min.

**Eluent:** PBS pH 7.4 (0.05 % NaN<sub>3</sub>)

**Detection:** Abs. at 280 nm and 490 nm

### Specifications

Column bed volume	5 mL
Size of eluted Proteins	> 5 kD
System compatibility	<ul style="list-style-type: none"> <li>Automated liquid chromatography systems (MPLC, FPLC™, ÄKTA™, etc.)</li> <li>Peristaltic pump</li> <li>Syringe</li> </ul>
Column dimensions	1.6 cm inner diameter x 2.5 cm height
Column body material	Polypropylene
Column ports	Inlet 10–32 (1/16") female Outlet 10–32 (1/16") male
Support	Zetadex-25 Superfine
Bead size	40–110 µm (hydrated)
Maximum back pressure	3 bar (0.3 MPa)
Recommended flow rate	1 to 5 mL/min
Maximum recommended flow rate	10 mL/min
Storage temperature	ambient
Storage solution	20 % (v/v) ethanol

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Catalog Number	Description	Pack Size
ZS-0101-M005.0-005	ZetaSep FPLC Desalting	5 × 5 mL Columns
ZS-0101-M005.0-100	ZetaSep FPLC Desalting	100 × 5 mL Columns
ZS-0102-M001.0-005	ZetaSep FPLC Desalting	5 × 1 mL Columns
ZS-0102-M001.0-100	ZetaSep FPLC Desalting	100 × 1 mL Columns

