

# Zetarose

## Hydrophobic Interaction Chromatography (HIC) Purification Solid Phases

For separation of biomolecules based on hydrophobic interaction with the stationary phase



Hydrophobic Interaction Chromatography (HIC) is one of the cornerstones of biomolecular separation. By careful control of the selective interaction between hydrophobic groups on the surface of the solid phase and target molecules, successful separation can be achieved by changing the salt concentration of the buffer.

*emp BIOTECH* offers one of the most extensive ranges of HIC solid phases available, giving unprecedented choice to obtain optimal separation. When developing a purification process using HIC, even small changes in the nature of the hydrophobic ligand can have a marked effect on the interaction with target molecules. Generally speaking, hydrophobicity increases with changes in the length of the ligand:

**Butyl < Pentyl < Hexyl < Heptyl < Octyl < Phenyl**

Based on porous and stable cross-linked beaded agaroses, **Zetarose** solid phases are used for a wide variety of separation techniques. Optimization is easily performed and can be scaled-up as required. *emp BIOTECH* offers HIC solid phases chosen from two different agarose concentrations and six distinct HIC ligands chemistries, helping you to achieve the best result possible.

We would be pleased to discuss your purification and to make recommendations as to the most favorable chemistry for your application. Contact us today.

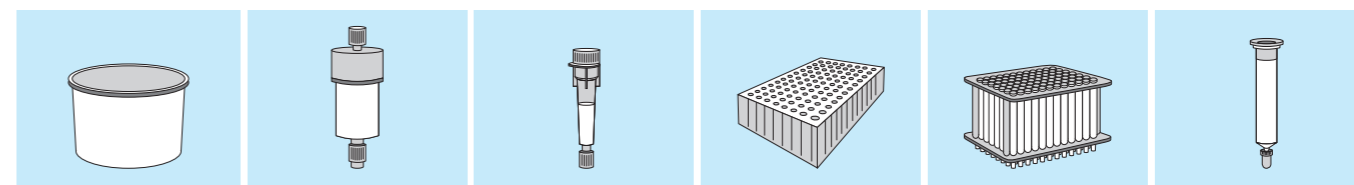


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## Hydrophobic Interaction Chromatography (HIC)

### Purification Solid Phases

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Product Name	Agarose Conc.	Functional Group	Maximum Flow Rate	Bulk Resin	ZetaSep FPLC Column	MINI Spin Column	MicroPlate	Multi Column Array	GraviPure Column
Zetarose Phenyl (High-sub)	6 %	-C <sub>6</sub> H <sub>5</sub>	>500 cm/hr	TM-1501	ZS-1501	MS-1501	MP-1501	MC-1501	GP-1501
Zetarose Phenyl FF4	4 %	-C <sub>6</sub> H <sub>5</sub>	>300 cm/hr	TM-1502	ZS-1502	MS-1502	MP-1502	MC-1502	GP-1502
Zetarose Phenyl FF6	6 %	-C <sub>6</sub> H <sub>5</sub>	>500 cm/hr	TM-1503	ZS-1503	MS-1503	MP-1503	MC-1503	GP-1503
Zetarose Phenyl HC	6 %	-C <sub>6</sub> H <sub>5</sub>	>250 cm/hr	TM-1504	ZS-1504	MS-1504	MP-1504	MC-1504	GP-1504
Zetarose Butyl FF4	4 %	-C <sub>4</sub> H <sub>9</sub>	>300 cm/hr	TM-1505	ZS-1505	MS-1505	MP-1505	MC-1505	GP-1505
Zetarose Butyl FF6	6 %	-C <sub>4</sub> H <sub>9</sub>	>500 cm/hr	TM-1506	ZS-1506	MS-1506	MP-1506	MC-1506	GP-1506
Zetarose Pentyl FF4	4 %	-C <sub>5</sub> H <sub>11</sub>	>300 cm/hr	TM-1509	ZS-1509	MS-1509	MP-1509	MC-1509	GP-1509
Zetarose Pentyl FF6	6 %	-C <sub>5</sub> H <sub>11</sub>	>500 cm/hr	TM-1510	ZS-1510	MS-1510	MP-1510	MC-1510	GP-1510
Zetarose Hexyl FF4	4 %	-C <sub>6</sub> H <sub>13</sub>	>300 cm/hr	TM-1511	ZS-1511	MS-1511	MP-1511	MC-1511	GP-1511
Zetarose Hexyl FF6	6 %	-C <sub>6</sub> H <sub>13</sub>	>500 cm/hr	TM-1512	ZS-1512	MS-1512	MP-1512	MC-1512	GP-1512
Zetarose Heptyl FF4	4 %	-C <sub>7</sub> H <sub>15</sub>	>300 cm/hr	TM-1513	ZS-1513	MS-1513	MP-1513	MC-1513	GP-1513
Zetarose Heptyl FF6	6 %	-C <sub>7</sub> H <sub>15</sub>	>500 cm/hr	TM-1514	ZS-1514	MS-1514	MP-1514	MC-1514	GP-1514
Zetarose Octyl FF4	4 %	-C <sub>8</sub> H <sub>17</sub>	>300 cm/hr	TM-1507	ZS-1507	MS-1507	MP-1507	MC-1507	GP-1507
Zetarose Octyl FF6	6 %	-C <sub>8</sub> H <sub>17</sub>	>500 cm/hr	TM-1508	ZS-1508	MS-1508	MP-1508	MC-1508	GP-1508

Zetarose solid phase resins are supplied in bulk or pre-packed in a wide range of ready-to-use formats. All Zetarose products are manufactured in dedicated ISO certified facilities under strict control of the highest internationally recognized quality standards.

emp BIOTECH is also pleased to supply you with fully customized solid phases designed specifically for your application. Please contact us for a consultation.

## Explore our Range of Resins



In addition to the HIC resin range, you may also be interested in our other purification solid phases including:

**Activated (ACT)**

**Affinity (AFF)**

**Ion exchange (IEX)**

**Size exclusion (SEC)**

A Regulatory Support File (RSF) can be provided on request.

*emp BIOTECH* offers a resin customization service and we will be pleased to discuss your requirements with you. Please do not hesitate to contact us for further information.

For more information, please contact us at **+49 30 9489 2201**  
or [resins@empbiotech.com](mailto:resins@empbiotech.com)

