

# Bench-scale pre-packed chromatography columns



**OPUS® MiniChrom® Columns are designed for bench-scale resin screening, process development and sample preparation.**

OPUS® MiniChrom® Columns are pre-packed with user-specified resin and supplied ready-to-use with any liquid chromatography system. Flexible internal diameters, bed heights and volumes allow comparative evaluation of process parameters and the construction of customized resin libraries.

- **Convenient**, pre-packed, ready-to-use
- **Variable** configurations of internal diameter, bed height, and volume
- **Compatible** with any liquid chromatography system
- **High reproducibility**, ensures reliable performance batch to batch
- **Broad scalability**, up to 10 ml volume and 3 diameters
- **Proven**, technology platformed in process development projects
- **Certified**, with individual column performance certificates available



Column inner diameter	5 mm			8 mm			11.3 mm	
Packed bed height	10 mm	25 mm	50 mm	20 mm	50 mm	100 mm	50 mm	100 mm
Column volume	0.2 mL	0.5 mL	1.0 mL	1.0 mL	2.5 mL	5.0 mL	5.0 mL	10.0 mL
Inner cross-sectional area	0.2 cm <sup>2</sup>			0.5 cm <sup>2</sup>			1.0 cm <sup>2</sup>	
Connectors	1/16", female (10-32)							
Materials of construction	Column tube: Polypropylene, Frit: Freudenberg PE/PP 7 - 12 µm pore size							
Chemical stability	All commonly used aqueous buffers, pH 1 - 14, organic solvents*. Avoid the use of halogenated organic solvents, hexane							
Column storage solution	<ul style="list-style-type: none"> <li>• AIEC and CIEC Columns: 20 % ethanol + 150 mM sodium chloride</li> <li>• HIC, SEC, Affinity and MMC Columns: 20 % ethanol</li> <li>• CHT™, CFT Columns (Bio-Rad): 20 % ethanol + 10 mM sodium phosphate, pH 6.8</li> <li>• ProSep® Columns (Millipore): 1 % benzyl alcohol + 0.1 M sodium acetate, pH 5.1</li> </ul>							
Recommended storage temp.	AIEC, CIEC, HIC, SEC and MMC: +4° C to +30° C, Affinity Columns: +2° C to +8° C							
Max. working pressure	Up to 30 bar							
Working temperature	+4° C to +30° C							
Flow velocity	Please refer to manufacturer's resin specification							
Labeling	Laser-etched on every column body. Label contains: Product number, Serial number, Resin name, Column dimensions (ID x H, V), Flow direction							

\* The chemical stability of the packed chromatography resin also has to be taken into consideration. For more information, please refer to the manufacturer's resin specification.