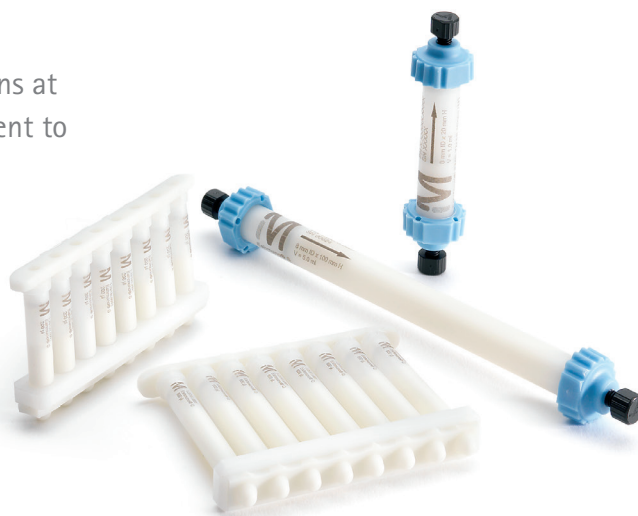


Data Sheet

Robocolumn® and MiniChrom chromatography columns

Small-scale prepacked chromatography columns for rapid process development, method optimization, parameter screening and sample preparation

We offer a variety of prepacked columns at different scale from process development to early production. They are packed with our comprehensive portfolio of chromatography resins.



When developing a purification process, you need to evaluate different media options following your specific process parameters and objectives. The large offering of diverse chromatography resins in the market can make it complex to choose from. We also understand that fast, accurate high throughput screening to drive research forward is critical to you. That's why we have developed a set of prepacked chromatography columns at various scales to efficiently and conveniently support you in your research, process development and media screening efforts providing robust, consistent performance. Prepacked columns eliminate the time-consuming,

laborious process of packing chromatography columns, leaving more time for processing your product. Different column sizes (0.2 mL, 0.6 mL, 1 mL, 5 mL) and chromatography resin combinations are available. The resin quality remains consistent with all our columns being packed in a quality controlled environment using established packing procedures that produce reproducible results.

MiniChrom columns

MiniChrom columns are designed for analytical and preparative chromatography with small volumes and rapid separation. Filled with our ProSep®, Fractogel® and Eshmuno® media, they are developed for media evaluation, process development, method optimization and parameter screening as well as sample preparation. These columns are compatible with any chromatographic work station, HPLC system or peristaltic pump.

Benefits

- Convenient and rapid comparison of different chromatography media
- Superior reproducibility
- Excellent scalability

MiniChrom column characteristics

Characteristic	Specification		
Components	Column - Polypropylene Bed supports - Polypropylene/Polyethylene		
Connections	Standard HPLC (M10-32 UNF for 1/16 in. tubing)		
Maximum working pressure	30 bar		
Flow rate	Up to 10 mL/min.		
Chemical stability of column hardware	pH 1-14, organic solvents (except halogenated), minerals and salts, common eluents and additives (urea, antioxidants, thiols, detergents, tensides)		
Temperature ranges	4-30° C		
Bed volumes	1 and 5 mL		
Column Dimensions (mm) The 8 mm diameter columns allow for scale-up from 1 to 5 mL column volumes with a constant internal diameter.	Internal Diameter	Bed Length	Column Bed Volume (mL)
	8	20	1
	8	100	5

RoboColumn® columns

Easy-to-use, miniaturized chromatography columns which can be individually arranged on the commonly used and standard 96 well microplate format according to application requirements. 1 pack is a row of 8 RoboColumn® columns.

They are designed for high throughput process development, resin and condition screening and optimization, and sample preparation prior to subsequent analysis.

Benefits

- Real chromatography mode of operation
- Manual method development
- Full automated parallel chromatography

RoboColumn® column characteristics

Characteristic	Specification
Components	Polypropylene
Maximum working pressure	8 bar
Flow rate	16-1000 cm/h ²
Chemical stability of column hardware	All commonly used aqueous buffers, pH 1 - 14, organic solvents
Temperature ranges	4-30° C
Bed volumes	0.2 mL and 0.6 mL

Ordering Information

Description	Column Size	Catalogue No.
MiniChrom columns		
MiniChrom Fractogel® EMD TMAE (M)	1 ml	1.25054.0001
MiniChrom Fractogel® EMD TMAE Hicap (M)	1 ml	1.25055.0001
MiniChrom Fractogel® EMD TMAE Medcap (M)	1 ml	1.25056.0001
MiniChrom Fractogel® EMD TMAE (S)	1 ml	1.25057.0001
MiniChrom Fractogel® EMD DEAE (M)	1 ml	1.25058.0001
MiniChrom Fractogel® EMD DMAE (M)	1 ml	1.25059.0001
MiniChrom Fractogel® EMD SE Hicap (M)	1 ml	1.25060.0001
MiniChrom Fractogel® EMD SO ₃ (M)	1 ml	1.25061.0001
MiniChrom Fractogel® EMD COO (M)	1 ml	1.25062.0001
MiniChrom Fractogel® EMD Chelate (M)	1 ml	1.25063.0001
MiniChrom Eshmun® S	1 ml	1.25064.0001
MiniChrom Eshmun® Q	1 ml	1.25065.0001
MiniChrom Eshmun® HCX	1 ml	1.25066.0001
MiniChrom Eshmun® CPX	1 ml	1.25156.0001
MiniChrom Eshmun® A	1 ml	1.25160.0001
MiniChrom ProSep® Ultra Plus	1 ml	1.25067.0001
MiniChrom ProSep® G	1 ml	1.25068.0001
MiniChrom Fractogel® EMD TMAE (M)	5 ml	1.25069.0001
MiniChrom Fractogel® EMD TMAE Hicap (M)	5 ml	1.25070.0001
MiniChrom Fractogel® EMD TMAE (S)	5 ml	1.25071.0001
MiniChrom Fractogel® EMD SO ₃ (M)	5 ml	1.25072.0001
MiniChrom Fractogel® EMD TMAE Medcap (M)	5 ml	1.25078.0001
MiniChrom Fractogel® EMD DEAE (M)	5 ml	1.25079.0001
MiniChrom Fractogel® EMD DMAE (M)	5 ml	1.25080.0001
MiniChrom Fractogel® EMD SE Hicap (M)	5 ml	1.25081.0001
MiniChrom Fractogel® EMD COO (M)	5 ml	1.25082.0001
MiniChrom Fractogel® EMD Chelate (M)	5 ml	1.25083.0001
MiniChrom Eshmun® S	5 ml	1.25073.0001
MiniChrom Eshmun® Q	5 ml	1.25074.0001
MiniChrom Eshmun® HCX	5 ml	1.25075.0001
MiniChrom Eshmun® CPX	5 ml	1.25157.0001
MiniChrom Eshmun® A	5 ml	1.25161.0001
MiniChrom ProSep® G	5 ml	1.25077.0001
MiniChrom ProSep® Ultra Plus	5 ml	1.25076.0001

Description	Column Size	Catalogue No.
RoboColumn® columns		
RoboColumn® Fractogel® EMD TMAE (M)	0.2 ml x 8	1.25084.0001
RoboColumn® Fractogel® EMD TMAE Hicap	0.2 ml x 8	1.25085.0001
RoboColumn® Fractogel® EMD TMAE (S)	0.2 ml x 8	1.25086.0001
RoboColumn® Fractogel® EMD SO ₃	0.2 ml x 8	1.25090.0001
RoboColumn® Fractogel® EMD DEAE (M)	0.2 ml x 8	1.25145.0001
RoboColumn® Fractogel® EMD DMAE (M)	0.2 ml x 8	1.25146.0001
RoboColumn® Fractogel® EMD SE Hicap	0.2 ml x 8	1.25147.0001
RoboColumn® Fractogel® EMD COO (M)	0.2 ml x 8	1.25148.0001
RoboColumn® Fractogel® EMD Chelate (M)	0.2 ml x 8	1.25149.0001
RoboColumn® Fractogel® EMD TMAE Medcap (M)	0.2 ml x 8	1.25144.0001
RoboColumn® Eshmun® S	0.2 ml x 8	1.25132.0001
RoboColumn® Eshmun® Q	0.2 ml x 8	1.25133.0001
RoboColumn® Eshmun® HCX	0.2 ml x 8	1.25134.0001
RoboColumn® Eshmun® CPX	0.2 ml x 8	1.25158.0001
RoboColumn® Eshmun® A	0.2 ml x 8	1.25162.0001
RoboColumn® ProSep® Ultra Plus	0.2 ml x 8	1.25135.0001
RoboColumn® Fractogel® EMD TMAE (M)	0.6 ml x 8	1.25136.0001
RoboColumn® Fractogel® EMD TMAE Hicap	0.6 ml x 8	1.25137.0001
RoboColumn® Fractogel® EMD TMAE (S)	0.6 ml x 8	1.25138.0001
RoboColumn® Fractogel® EMD SO ₃	0.6 ml x 8	1.25139.0001
RoboColumn® Fractogel® EMD TMAE Medcap (M)	0.6 ml x 8	1.25150.0001
RoboColumn® Fractogel® EMD DEAE (M)	0.6 ml x 8	1.25151.0001
RoboColumn® Fractogel® EMD DMAE (M)	0.6 ml x 8	1.25152.0001
RoboColumn® Fractogel® EMD SE Hicap	0.6 ml x 8	1.25153.0001
RoboColumn® Fractogel® EMD COO (M)	0.6 ml x 8	1.25154.0001
RoboColumn® Fractogel® EMD Chelate (M)	0.6 ml x 8	1.25155.0001
RoboColumn® Eshmun® S	0.6 ml x 8	1.25140.0001
RoboColumn® Eshmun® Q	0.6 ml x 8	1.25141.0001
RoboColumn® Eshmun® HCX	0.6 ml x 8	1.25142.0001
RoboColumn® Eshmun® CPX	0.6 ml x 8	1.25159.0001
RoboColumn® Eshmun® A	0.6 ml x 8	1.25163.0001
RoboColumn® ProSep® Ultra Plus	0.6 ml x 8	1.25143.0001

Ordering Information

Description	Catalogue No.
Eshmuno® Resins (bulk media)	
Eshmuno® S	120078
Eshmuno® Q	120079
Eshmuno® HCX	120087
Eshmuno® CPX	120083
Fractogel® EMD Resins (bulk media)	
Fractogel® EMD TMAE (M)	116881
Fractogel® EMD TMAE Hicap (M)	110316
Fractogel® EMD TMAE Medcap (M)	116885
Fractogel® EMD TMAE (S)	116887
Fractogel® EMD DEAE (M)	116883
Fractogel® EMD DMAE (M)	116884
Fractogel® EMD SE Hicap (M)	114894
Fractogel® EMD SO ₃ (M)	116882
Fractogel® EMD COO (M)	116886
Fractogel® EMD Chelate (M)	110338
Protein A Resins (bulk media)	
Eshmuno® A	120089
ProSep® Ultra Plus	175118827



For further scale up in an easy prepacked column format, Chromabolt® columns come in different column diameters (10 cm, 20 cm, 32 cm) all with a 20 cm bed height. For more information on these early clinical manufacturing prepacked columns, please visit:

www.emdmillipore.com/Chromabolt

To place an order or receive technical assistance

In the U.S. and Canada, call toll-free
1(800)-645-5476

For other countries across Europe, call
+44 (0) 115 943 0840

For other countries across Europe and the world, please visit www.emdmillipore.com/offices

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