

Custom HPLC Columns and Packing Materials

Hamilton offers an extensive line of off-the-shelf HPLC columns with different packing material chemistries, varying particle sizes and column hardware dimensions in two hardware types—stainless steel and polyether ether ketone (PEEK) plastic. However, even with all the standard options available, customers often require a custom built column where they may need one of our stationary phases packed into a column hardware combination that is not a standard product.

Custom HPLC columns offer customers the ability to have any of our stationary phases packed into most any hardware format to suit their application requirement.

Ordering custom HPLC products

Customers can specify the following information either through the online shopping cart or over the phone with a customer service representative:

- ▶ Packing material and particle size (e.g., PRP-1, 5 μm)
- ▶ Hardware dimensions and material (e.g., 4.6 x 150 mm, PEEK)

Custom HPLC Column Ordering Information

Custom Column Category	Part Number
Analytical HPLC Column, Custom Order (1.0, 2.1, 4.1, 4.6 mm ID)	79641
Semi-preparative HPLC Column, Custom Order (7.0, 7.8, 10 mm ID)	79642
Preparative HPLC Column #1, Custom Order (21.2, 30 mm ID)	79643
Preparative HPLC Column #2, Custom Order (50 mm ID)	79644
Preparative HPLC Column #3, Custom Order (100 mm ID)	79645

From autosampler syringes to manual injection and more, Hamilton has the chromatography syringe you need. View the full portfolio of HPLC, GC and TLC syringes at www.hamiltoncompany.com/syringes.

HPLC Guard Columns

Hamilton guard columns protect analytical, semi-prep and preparative HPLC columns. They also remove particulate contaminants and highly adsorptive compounds from samples, prolonging column life. The designs are modular and cartridge replacement is easy and tool-free.

Cartridge holders for analytical columns are available in stainless steel and PEEK materials. Semi-prep/preparative holders are available only in stainless steel. The design of the cartridge holders is optimized to reduce dead volume and prevent extra column band broadening. Cartridge holders are reusable indefinitely.

Packing Material	Analytical Starter Kits (1 holder, 2 cartridges)		Analytical Replacement Cartridges (5/pk)		Semi-prep/preparative Starter Kits (1 holder, 1 cartridge)	Semi-prep/preparative Replacement Cartridges (2/pk)
	Stainless Steel	PEEK	Stainless Steel	PEEK	Stainless Steel	Stainless Steel
PRP-1	79447	79317	79445	79318	79121	79122
PRP-3	79461	79393	79454	79395	79123	79124
PRP-C18	79685	79687	79686	79688	79689	79690
PRP-h5	79267		79268		79277	79278
PRP-X100	79448	79383	79446	79385	79125	79126
PRP-X110/ X110S	79726	79727	79728	79729		
PRP-X500		79319		79320		
PRP-X600		79361		79362		
RCX-10	79462	79378	79463	79379		
RCX-30		79371		79372		
PRP-X200	79456	79368	79449	79369	79127	79128
PRP-X400		79376		79377	79131	79132
PRP-X800	79830	79831	79832	79833		
HC-75 H ⁺			79134		79133	79134
HC-75 CO ³					79866	79865
PRP-X300	79460	79373	79453	79374	79129	79130

Bulk Polymer Resin

Hamilton offers a range of bulk polymer resins for customers who prefer to pack their own column hardware. Chromatographic capacity and efficiency tests are conducted on both bulk and packed column resins to ensure product integrity. Samples from different lots can be purchased for method and process validation.

Please specify the quantity of resin needed in grams when ordering. Quantities from one gram to kilos are available.

Support	Support Material	Exchange Capacity	Pore Size	Particle Size						
				5 μm	7 μm	9 μm	10 μm	12-20 μm	30-50 μm	50-75 μm
PRP-C18	PS-DVB functionalized with C18	N/A	100 Å	79791						
PRP-C18	PS-DVB functionalized with C18	N/A	100 Å	79792						
PRP-C18	PS-DVB functionalized with C18	N/A	100 Å	79793						
PRP-h5	PS-DVB	N/A	300 Å	79280						
PRP-1	PS-DVB	N/A	100 Å	79578	79579		79580	79581	79582	79583
PRP-3	PS-DVB	N/A	300 Å	79701 79702						
PRP-X100	PS-DVB with Trimethylammonium Exchanger	0.19 meq/gm	100 Å	79584			79585	79586		
PRP-X500	Poly(methacrylamidopropyl Trimethylammonium chloride)	1.6 meq/gm	Superficially porous		79594			79595	79596	
PRP-X600	Poly(dimethylamidopropyl-methacrylamide)	1.6 meq/gm	Superficially porous		79597			79598	79599	
RCX-10	PS-DVB with Trimethylammonium Exchanger	0.35 meq/gm	100 Å		79703					
PRP-X200	PS-DVB Sulfonate Exchanger	35 μeq/gm	100 Å				79587	79588		
PRP-X400	PS-DVB Sulfonate Exchanger	2.5 meq/gm	N/A		79591			79592	79593	
HC-75 Ca ²⁺	PS-DVB Sulfonate Exchanger	5.0 meq/gm	Gel-Type				79709			
HC-75 H ⁺	PS-DVB Sulfonate Exchanger	5.0 meq/gm	Gel-Type				79711			
HC-75 Pb ²⁺	PS-DVB Sulfonate Exchanger	5.0 meq/gm	Gel-Type				79712			

