Availability

In quantities by gram or kilogram - it doesn't matter. We supply the quantity you need in the quality you need. Do you need material for an analytical test? Do

you have up-scaling to 20 kg stationary phase in mind? Contact us. We will support you. Just let the application dictate your requirements - not the availability.

Bulk Resins

Reversed Phase Supports	Support Material	Exchange Capacity	Pore Size	3 µm	5 µm	7 µm	10 µm	12-20 µm	30-50 µm	50-75µm
PRP-1	PSDVB*	N/A	100 Å	79821	79578	79579	79580	79581	79582	79583
PRP-3	PSDVB*	N/A	300 Å	79822			79701	79702	79180	
Anion Exchange Supports	Support Material	Exchange Capacity	Pore Size	3 µm	5 µm	7 µm	10 µm	12-20 µm	30-50 µm	50-75µm
PRP-X100	PSDVB* with Trimethyl- ammoniun Exchanger	0.19 meq/gm	100 Å	79823	79584		79585	79586		
PRP-X500	Poly(methacryl- amidopropryl Trimethyl- ammonium chloride	1.6 meq/gm	Superfi- cially porous			79594		79595	79596	
PRP-X600	Poly(dimethyl- amidopropyl-methacryl- amide)	1.6 meq/gm	Superfi- cially porous	79193	79192	79597		79598	79599	
Cation Exchange Supports	Support Material	Exchange Capacity	Pore Size	3 µm	5 µm	7 µm	10 µm	12-20 µm	30-50 µm	50-75µm
PRP-X200	PSDVB* with Sulfonate Exchanger	35 µeq/gm	100 Å				79587	79588		
PRP-X400	PSDVB* with Sulfonate Exchanger	2.5 meq/gm	N/A			79591		79592	79593	

^{*} PSDVB is Poly(styrene-divinylbenzene) Bulk resin is sold by the gram.

	Recommended Uses		
Reversed Phase	PRP°-1 PRP-3	General purpose pH stable long life column, synthesized DNA Gradient protein and peptide separations	
Anion Exchange	PRP-X100	Anions, inorganic and organic using conductivity or UV detection. 0 to 100 % solvent compatible.	
	PRP-X500	Gradient separation of large proteins and labeled DNA	
	PRP-X600	Gradient separation of labeled and unlabeled DNA	
Cation Exchange	PRP-X200	Inorganic and organic cations using conductivity or UV detection. Separate mono or divalent cations depending on mobile phase conditions.	
	PRP-X400	Glyphosate and metabolite in drinking water. Also unique hydrophilic interaction separations	



Via Crusch 8 Telephone: +41-(0)81-660-60-60 Fax: +41-(0)81-660-60-70

Fax: +1-775-856-7259 e-mail: sales@hamiltoncompany.com

Web site: http://www.hamiltoncompany.com

PRP® is a registered trademark of the Hamilton Company

E/691061/00 06/03

POLYMERIC BULK RESINS



Analytical & Preparative LC

Distributed by:



ADVANCED APPLIED TECHNOLOGIES

Contact Us:

Irl Ph: 01 4523432 UK Ph: 08452 30 40 30 Web: www.carlstuart.com Email: info@carlstuart.com





Hamilton Polymeric Bulk Resins

Consistent Performance

Inertness & Durability

ensures safe operation without bleeding or any other 13. Cleaning of the support beyond these pH limits is

Table 1 Packing/Repacking of PRP-1, 8-10 um, 4.1 x 250 mm

, , , , , , , , , , , , , , , , , , ,				
	Column 1	Column 2	Column 3	
Pressure after 1st packing (psi)	600	600	600	
Pressure after 10th packing (psi)	700	700	700	
Plates after 10th packing				

High Sample Recovery

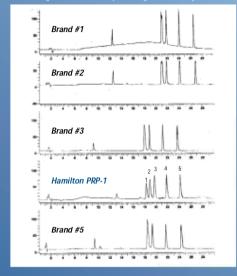
sophisticated methods of encapsulating the support 100 % suppression of silanol activity has not been and poor sample recovery are not unusual for a lot of silica supports, particularly when used for determining

Selectivity Beats Efficiency

A lot of chromatographers ask first for efficiency when confronted with a stationary phase which is unknown to them. The reason is based on a long tradition of working with C18 silica materials which have their strength in efficiency. This advantage has doubtlessly been the key to market leadership in silica phases. But is there a justification for this attitude? From a chromatographic point of view the answer should clearly be no! What you should ask first is selectivity. It tells you the relationship between the net retention times of two compounds which have to be separated. Only good selectivity grants a rugged and reliable separation. Silica-based stationary phases have no inherent advantage regarding selectivity. Often polymeric supports work better in this respect (figure 1).



Figure 1 Mixture of 5 closely related decapeptides



Consistent Performance

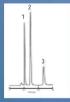
We manufacture our supports from the monomer precursors. In doing so, we are able to control every aspect of the polymer's sythesis, sizing and eventual packing. With this control, we are able to ensure reproducible resin performance, batch after batch.

Table 2	
	Median Diameter of
Lot Number	PRP-1, 50-75 μm
#664	60.74
#647	65.54
#648	62.45
#616M	60.30
#619M	55.87
#604M	56.8
#611M	54.62
609M1	55.23
691	56.60
597	63.79
573M	60.39

Table 3		
Lot Num	ber	in Å by BET
#21	12/86	81.8
#546	09/95	72.4
#603	09/97	74.5
#615M	04/98	
#644		
#645	12/99	69.6
#654B	06/00	71.2

Scaleability

no problem with Hamilton resins. Just scale up flow of the column's cross-section.



PRP-1, 10 μm, 4.1 x 250 mm



PRP-1, 12-20 µm, 101.6 x 250 mm