

by Hamilton Co.

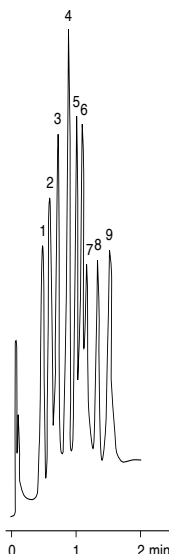
- Polymer-based materials
- pH stable from 1 to 13
- Pressure stable
- 300 Å columns for biopolymer separations

Hamilton PRP-1 and PRP-3 columns are reversed phase polymer HPLC columns. PRP-1 is the column for purifying tritylated synthetic oligonucleotides or separating drugs at high or low pH. PRP-3 has a 300 Å pore size and is designed for reversed phase analysis of proteins and peptides. TFA gradients at low pH can be used without deteriorating column performance.

PRP-Infinity utilizes a non-porous polymer bead for gradient elution of six proteins in 60 seconds. The PRP-X400 effectively analyzes glyphosate and its metabolite. The RCX-10 separates carbohydrates using gradient or isocratic elution with a basic pH mobile phase.

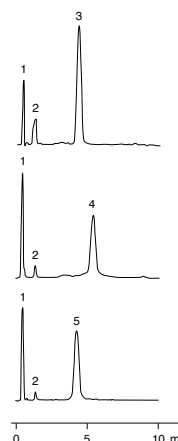
App ID 5313 | Nine Proteins on PRP-Infinity

Column: Hamilton PRP-Infinity
Dimensions: 30 x 4.1 mm
Part No.: CHO-1167
Mobile Phase: Acetonitrile/0.1 Acetate, pH 7.5 (10:90)
Gradient: Linear; 20 - 60 % B in 2 min
Flow Rate: 2.0 mL/min
Temperature: Ambient
Detection: UV @ 215 nm
Injection: 20 µL
Sample: 1. Ribonuclease A
 2. Insulin
 3. Cytochrome C
 4. Lysozyme
 5. Transferrin
 6. BSA
 7. Myoglobin
 8. Concanavalin
 9. Ovalbumin



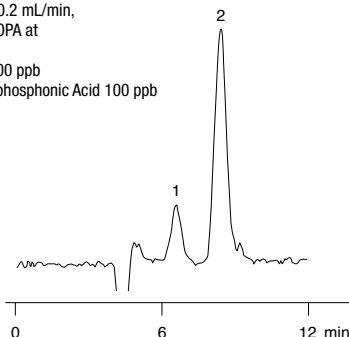
App ID 5310 | 5' DMT-ON Oligonucleotide

Column: Hamilton PRP-1 10 µm
Dimensions: 150 x 4.1 mm
Part No.: CHO-0678
Mobile Phase: Acetonitrile/0.1 Acetate, pH 7.5 (10:90)
Gradient: Isocratic
Flow Rate: 2.0 mL/min
Temperature: Ambient
Detection: UV @ 260 nm
Injection: 100 µL
Sample: 1. & 2. Failure Sequences
 3. 5' DMT-12mer
 4. 5' DMT-16mer
 5. 5' DMT-20mer



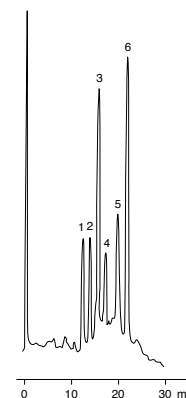
App ID 5309 | Glyphosate and its Metabolite

Column: Hamilton PRP-X400
Dimensions: 250 x 4.1 mm
Part No.: CHO-1175
Mobile Phase: 5.0 mM Monobasic Potassium Phosphate, pH 2.1
Flow Rate: 0.5 mL/min
Temperature: Ambient
Detection: Fluorescence Exλ 338 nm, Emλ 455 nm
Post Column: Oxidate with 15 ppm Calcium Hypochlorite at 0.2 mL/min, Derivatize with OPA at 0.3 mL/min
Sample: 1. Glyphosate 100 ppb
 2. Aminomethylphosphonic Acid 100 ppb



App ID 5311 | Six Proteins at pH 12.2

Column: Hamilton PRP-3
Dimensions: 150 x 4.1 mm
Part No.: CHO-0682
Mobile Phase: A: 0.1 % TFA in 50 mM Sodium Hydroxide, pH 12.2
 B: 0.1 % TFA in Acetonitrile
Gradient: Linear; 0 - 60 % B in 30 min
Flow Rate: 2.0 mL/min
Temperature: Ambient
Detection: UV @ 220 nm
Injection: 50 µL
Sample: 1. Ribonuclease A
 2. Insulin
 3. Cytochrome C
 4. Trypsin
 5. Lysozyme
 6. Pyruvate Dehydrogenase



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ORDERING INFORMATION

Columns (mm)				
Description	Size(mm)	Part No.	Mfr. No.	Price
PRP-1 5 µm	150 x 2.1	CHO-4174	79366	
PRP-1 5 µm	50 x 4.1	CHO-1537	79443	
PRP-1 5 µm	150 x 4.1	CHO-0677	79444	
PRP-1 5 µm PEEK	150 x 4.6	CHO-1594	79423	
PRP-1 7 µm	250 x 4.1	CHO-1650	79422	
PRP-1 7 µm PEEK	250 x 4.6	CHO-3030	79380	
PRP-1 10 µm	150 x 4.1	CHO-0678	79425	
PRP-1 10 µm PEEK	250 x 4.6	CHO-4178	79381	
PRP-1 10 µm	250 x 4.1	CHO-0679	79427	
PRP-1 10 µm	250 x 10	CHO-1599	79496	
PRP-1 12 - 20 µm	250 x 21.5	CHO-1602	79428	
PRP-3 10 µm 300 Å for Proteins and Peptides	150 x 2.1	CHO-4179	79392	
PRP-3 10 µm	150 x 4.1	CHO-0682	79466	
PRP-3 10 µm 300 Å PEEK	150 x 4.6	CHO-3031	79382	
PRP-3 12 - 20 µm 300 Å	250 x 21.5	CHO-0684	79469	
PRP-X100 10 µm IC for Anion Analysis	150 x 2.1	CHO-4180	79421	
PRP-X100 10 µm	250 x 2.1	CHO-4181	79346	
PRP-X100 10 µm	100 x 4.1	CHO-0685	79439	
PRP-X100 10 µm	150 x 4.1	CHO-0686	79434	
PRP-X100 10 µm PEEK	250 x 4.6	CHO-3032	79455	
PRP-X100 10 µm PEEK	150 x 4.6	CHO-4182	79354	
PRP-X100 10 µm	250 x 4.1	CHO-0687	79433	
PRP-X200 10 µm for Cation Analysis	150 x 2.1	CHO-4183	79394	
PRP-X200 10 µm	150 x 4.1	CHO-0688	79441	
PRP-X200 10 µm	250 x 4.1	CHO-0689	79442	
PRP-X200 10 µm PEEK	150 x 4.6	CHO-4207	79384	
PRP-X200 10 µm PEEK	250 x 4.6	CHO-4208	79357	
PRP-X200 10 µm Semi-Preparative	305 x 7.0	CHO-1608	79489	
PRP-X300 7 µm Ion-Exclusion for Alcohols and Organic Acids	250 x 4.1	CHO-1169	79465	
PRP-X400 7 µm Ion-Exchange for Glyphosate Analysis	250 x 2.1	CHO-4206	79398	
PRP-X400 7 µm	250 x 4.1	CHO-1175	79473	
PRP-X600 7 µm Weak Base Anion-Exchange	50 x 4.6	CHO-4189	79360	
PRP-Infinity 4 µm Non-porous RP	30 x 4.1	CHO-1167	79470	
HC-75 9 µm Calcium Form for Carbohydrates	250 x 4.1	CHO-1629	79431	
HC-75 9 µm Calcium Form for Carbohydrates	305 x 7.8	CHO-1630	79436	
RCX-30 7 µm PEEK Anion-Exchange for Complex Sugars	150 x 4.6	CHO-5702	79370	

Guards and Starter Kits			
Description	Part No.	Mfr. No.	Price
Guard Column Cartridge Holder	CHO-1635	32908	
Guard Column Header Assembly	CHO-1636	32918	
PRP-1 Guard Column Starter Kit	CHO-0669	79447	
PRP-1 Guard Column Replacement Cartridges Kit (5/pk)	CHO-0670	79445	
PRP-1 PEEK Guard Column Starter Kit	CHO-1637	79317	
PRP-3 Guard Column Starter Kit	CHO-1639	79461	
PRP-X100 Guard Column Starter Kit	CHO-0671	79448	
PRP-X100 Guard Column Replacement Cartridges Kit (5/pk)	CHO-0672	79446	
PRP-X100 PEEK Guard Column Starter Kit	CHO-4195	79383	
PRP-X100 PEEK Cartridge (5/pk)	CHO-4196	79385	
PRP-X200 Guard Column Starter Kit	CHO-0673	79456	
PRP-X200 Guard Column Replacement Cartridges Kit (5/pk)	CHO-0674	79449	
PRP-X200 PEEK Guard Column Starter Kit	CHO-4197	79368	
PRP-X300 Guard Column Starter Kit	CHO-1170	79460	
PRP-X400 PEEK Guard Column Starter Kit	CHO-4201	79376	
PRP-X400 PEEK Cartridge (5/pk)	CHO-4202	79377	
RCX-10 Guard Column Starter Kit	CHO-1643	79462	
RCX-10 Guard Column Replacement Cartridges Kit (5/pk)	CHO-1644	79463	
RCX-30 Guard Column Starter Kit	CHO-5703	79371	



All Hamilton Guard Columns are available in PEEK hardware.
All other Hamilton Columns and Bulk Packings not listed are available.