PRP®-h5 Polymer HPLC Columns

Hamilton PRP®-h5 Polymer HPLC Columns

- **Chemical Stability**
- **Full pH Range Stability**
- **Enhanced Sample Recovery**

The PRP-h5 HPLC column line from Hamilton offers a robust alternative to silica based and traditional polymer HPLC columns for oligonucleotide and protein separations.

Total Compatibility

The PRP-h5 is a high performance, polymeric, reversed-phase column that delivers separations of a wide variety of analytes under the most extreme analytical conditions. Virtually any organic solvent and mobile phase additives can be employed to optimize analyte separation.

A highly cross-linked poly(styrene-co-divinylbenzene) polymer (PS-DVB) provides the necessary mechanical stability to withstand most solvents while delivering excellent resolution and superior performance run after run.

Extended Column Life

Because there is no bonded phase in polymer materials as is the case with silica columns, even harsh solvents such as 1 molar sodium hydroxide can be used to wash contaminants from the column, thus increasing column lifetime.

Mobile phases with pH ranging from 1 to 13 can be used without damaging or degrading the stationary phase. This wide pH range opens up more possibilities of solvents and buffers that can be used to elucidate a great separation.

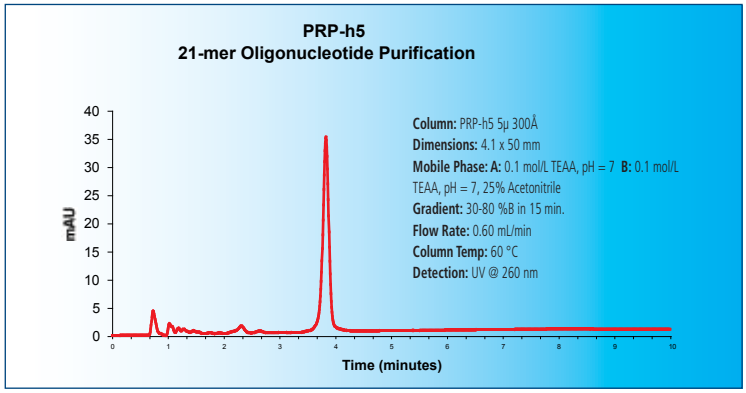
Lower Pressure Operation

Unlike traditional polymer columns, PRP-h5 columns produce much lower system pressures commonly encountered in HPLC. A high degree of cross-linking combined with a proprietary polymer manufacturing process minimizes polymer swelling and gives reproducible results at significantly lower pressures than most other polymer HPLC columns. The superior resolution of PRP-h5 delivers the right separation, speeding up method development, validation and production.

HAMILTON

PRP-h5 for Lower Cost Oligonucleotide Purification

The PRP-h5 HPLC column is designed for the purification of oligonucleotides. The cost-per-run is dramatically reduced as the desired oligonucleotide elutes with less acetonitrile because the PRP-h5 packing material is less hydrophobic than traditional polymeric columns. The stronger hydrophilic backbone of PRP-h5 virtually eliminates non-specific binding of oligonucleotides to maximize recovery and minimize carry-over contamination from the previous injection.



Technical Data

Material:	Cross-linked poly(styrene-co-divinylbenzene) polymer
Particle size:	5 µ
Pore size:	300 Å

Ordering Information

HPLC Columns

	PRP-h5 (300 Å)			
	50 mm	**100 mm**	**150 mm**	**250 mm**
2.1 mm ID		79270	79271	
4.6 mm ID	79261	79262	79272	79273
10 mm ID		79263	79274	

Guard Columns

	PRP-h5
Analytical Guard Column Starter Kit (1 holder, 2 cartridges)	79267
Analytical Replacement Cartridges (5/pk)	79268
Semiprep/Prep Guard Column Starter Kit (1 holder, 2 cartridges)	79277
Simiprep/Prep Replacement Cartridges (2/pk)	79278

Bulk Resin

	PRP-h5
12-20 µm Bulk Resin (1 Gram)	79280

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