

TK Hamilton PRP[®]-h1 HPLC Columns



Hamilton PRP[®]-h1 Polymer HPLC Columns

- Chemical Stability
- Full pH Range Stability
- Temperature Stability

The PRP-h1 column line from Hamilton offers a robust alternative to silica based and traditional polymer HPLC columns.

Total Compatibility

The PRP-h1 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.

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.

Wide Temperature Range

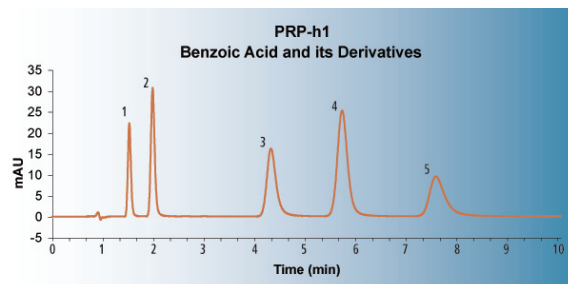
Common HPLC separation temperatures range between 20 and 85 °C and in some cases may go above 100 °C.

Technical Data

Material: Cross-linked poly(styrene-co-divinylbenzene) polymer

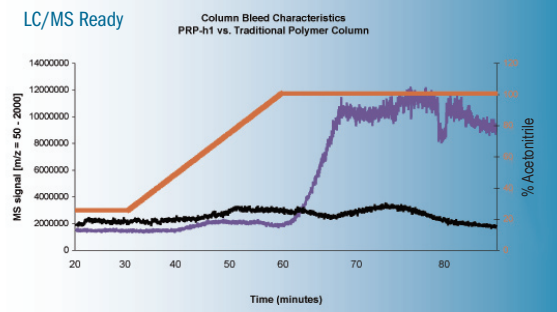
Particle size: 5 μ

Pore size: 100 Å



Column: PRP-h1, 5μ, 100Å
Dimensions: 4.1 x 150 mm
Mobile Phase: A: 10 mmol/L sodium dihydrogenphosphate, pH = 2.2 B: Acetonitrile
Gradient: 18% B (Isocratic)
Flow Rate: 0.60 mL/min
Temperature: 50 °C
Detection: UV @ 230 nm
Injection Volume: 5 μL
Sample: 1. 2,4-Dihydroxybenzoic Acid
 2. 4-Hydroxybenzoic Acid
 3. 2-Acetoxybenzoic Acid (Aspirin)
 4. Benzoic Acid
 5. 2-Hydroxybenzoic Acid (Salicylic Acid)

LC/MS Ready



Ordering Information

HPLC Columns	PRP-h1 (100Å)			
	50 mm	100 mm	150 mm	250 mm
2.1 mm ID		HA-79250	HA-79249	
4.6 mm ID	HA-79251	HA-79252	HA-79253	HA-79256
10 mm ID		HA-79255	HA-79266	
100 mm ID				HA-79523

Guard Columns

Reference	Description
HA-79257	Analytical Guard Column Starter Kit (1 holder, 2 cartridges)
HA-79258	Analytical Replacement Cartridges (5/pk)
HA-79275	Semiprep/Prep Guard Column Starter Kit (1 holder, 2 cartridges)
HA-79276	Semiprep/Prep Replacement Cartridges (2/pk)

Bulk Resin

Reference	Description
HA-79279	12-20 μm Bulk Resin (1 Gram)