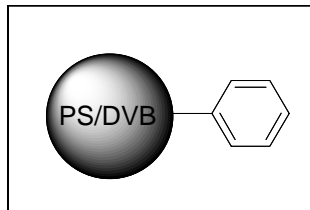


# Sepax PolyRP Columns

## Specifications



## Porous Packings

PS/DVB Particles: spherical, 80% cross-linking

Pore size: 100, 300, 500 and 1000 Å

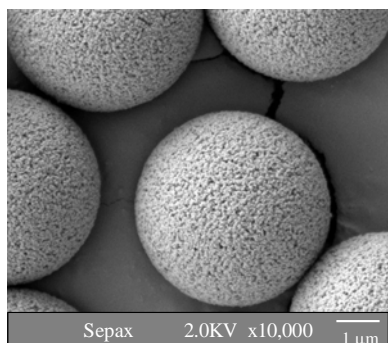
Particle size: 5 and 10 µm

Pore volume: 1.0 mL/g

Surface area: 280 m<sup>2</sup>/g for 100 Å pore size

Phase structure: phenyl group

Separation mechanism: hydrophobic interaction



## Non-Porous Resins

PS/DVB Particles: spherical, 80% cross-linking

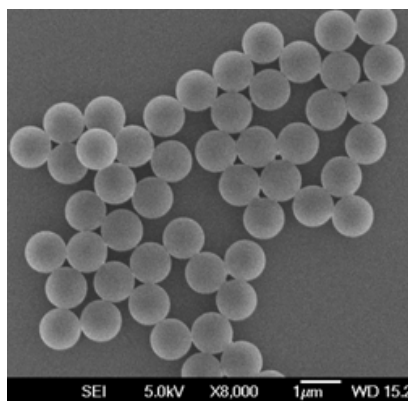
Pore size: non-porous

Particle size: 1.7, 3, 5 and 10 µm

Surface area: <10 m<sup>2</sup>/g

Phase structure: phenyl group

Separation mechanism: hydrophobic interaction



## Description

PolyRP phases are made of 80% cross-linking PS/DVB spherical particles. Those highly rigid particles have both non-porous and porous structures with the particle size selection of 1, 1.7, 3, 5, and 10 µm. The phase structure is phenyl functional group that enables hydrophobic interaction. Compared with silica based reversed phases, PolyRP phases have advantages over applications at extreme pH (1-14) with special selectivity and slightly lower separation efficiency. A typical test chromatogram for quality control is shown in Figure 1 for a 7.8x300mm PolyRP-300 (10 µm) column.

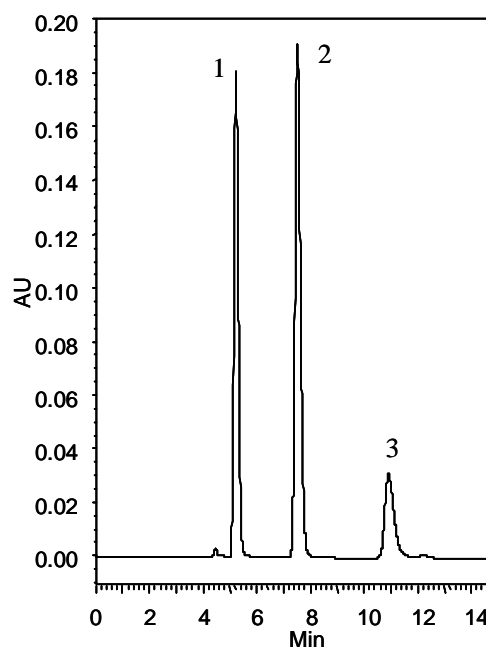


Figure 1. Test chromatogram of PolyRP-300. Column: PolyRP-300 (10µm, 300Å, 7.8x300mm). Mobile Phase: 55% ACN/45% H<sub>2</sub>O/0.1% TFA. Flow Rate: 2.0 mL/min. Temperature: Ambient. Detection (UV): 254 nm. Injection volume: 10 µL. Sample: 1. p-Amino benzoic acid, 2. p-Cyanophenol, 3. p-Nitroaniline.

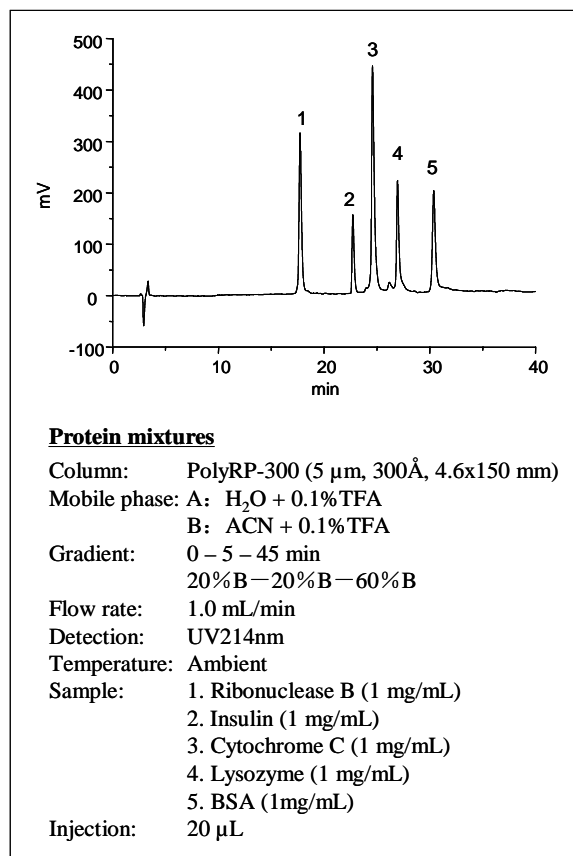
## Characteristics

- Uniform particles and narrow pore size distribution
- Extremely high chemical stability
- Unsurpassed pH stability (1-14)
- High retentivity
- Better selectivity
- High mechanical stability

## Applications

- Suitable for separations of pharmaceuticals, acidic, neutral and basic organic compounds, and organic acids
- Separation of peptides, amino acids, and proteins
- Analytical and preparative scale separation
- Bulk resins for process chromatography

## Protein separation



## Ordering Information

5 $\mu$ m Analytical Columns (length x ID mm)							Guard column*
Phases	30x2.1	50x2.1	100x2.1	150x2.1	250x2.1	10x2.0	
	\$300	\$300	\$350	\$400	\$450	\$150	
PolyRP-100 (100 $\text{\AA}$ )	260100-2103	260100-2105	260100-2110	260100-2115	260100-2125	260100-2001	
PolyRP-300 (300 $\text{\AA}$ )	260300-2103	260300-2105	260300-2110	260300-2115	260300-2125	260300-2001	
PolyRP-500 (500 $\text{\AA}$ )	260500-2103	260500-2105	260500-2110	260500-2115	260500-2125	260500-2001	
PolyRP-1000 (1000 $\text{\AA}$ )	260950-2103	260950-2105	260950-2110	260950-2115	260950-2125	260950-2001	
Phases	30x4.6	50x4.6	100x4.6	150x4.6	250x4.6	10x4.0	
	\$300	\$300	\$350	\$400	\$450	\$150	
PolyRP-100 (100 $\text{\AA}$ )	260100-4603	260100-4605	260100-4610	260100-4615	260100-4625	260100-4001	
PolyRP-300 (300 $\text{\AA}$ )	260300-4603	260300-4605	260300-4610	260300-4615	260300-4625	260300-4001	
PolyRP-500 (500 $\text{\AA}$ )	260500-4603	260500-4605	260500-4610	260500-4615	260500-4625	260500-4001	
PolyRP-1000 (1000 $\text{\AA}$ )	260950-4603	260950-4605	260950-4610	260950-4615	260950-4625	260950-4001	

## Ordering Information

<b>5 µm Semi-Prep and Prep Columns (length x ID mm)</b>						Guard column
	150x7.8	250x7.8	100x10	150x10	250x10	50x10
Phases	\$825	\$945	\$825	\$935	\$1,150	\$475
PolyRP-100 (100 Å)	260100-7815	260100-7825	260100-10010	260100-10015	260100-10025	260100-10005
PolyRP-300 (300 Å)	260300-7815	260300-7825	260300-10010	260300-10015	260300-10025	260300-10005
PolyRP-500 (500 Å)	260500-7815	260500-7825	260500-10010	260500-10015	260500-10025	260500-10005
PolyRP-1000(1000Å)	260950-7815	260950-7825	260950-10010	260950-10015	260950-10025	260950-10005
	100x21.2	150x21.2	250x21.2	150x30	250x30	10x21.2**
Phases	\$1,850	\$2,095	\$2,450	\$3,550	\$4,845	\$275
PolyRP-100 (100 Å)	260100-21210	260100-21215	260100-21225	260100-30015	260100-30025	260100-21201
PolyRP-300 (300 Å)	260300-21210	260300-21215	260300-21225	260300-30015	260300-30025	260300-21201
PolyRP-500 (500 Å)	260500-21210	260500-21215	260500-21225	260500-30015	260500-30025	260500-21201
PolyRP-1000(1000Å)	260950-21210	260950-21215	260950-21225	260950-30015	260950-30025	260950-21201

<b>10 µm Analytical Columns (length x ID mm)</b>						Guard column*
	30x2.1	50x2.1	100x2.1	150x2.1	250x2.1	10x2.0
Phases	\$250	\$250	\$325	\$350	\$375	\$125
PolyRP-100 (100 Å)	261100-2103	261100-2105	261100-2110	261100-2115	261100-2125	261100-2001
PolyRP-300 (300 Å)	261300-2103	261300-2105	261300-2110	261300-2115	261300-2125	261300-2001
PolyRP-500 (500 Å)	261500-2103	261500-2105	261500-2110	261500-2115	261500-2125	261500-2001
PolyRP-1000 (1000 Å)	261950-2103	261950-2105	261950-2110	261950-2115	261950-2125	261950-2001
	30x4.6	50x4.6	100x4.6	150x4.6	250x4.6	10x4.0
Phases	\$250	\$250	\$325	\$350	\$375	\$125
PolyRP-100 (100 Å)	261100-4603	261100-4605	261100-4610	261100-4615	261100-4625	261100-4001
PolyRP-300 (300 Å)	261300-4603	261300-4605	261300-4610	261300-4615	261300-4625	261300-4001
PolyRP-500 (500 Å)	261500-4603	261500-4605	261500-4610	261500-4615	261500-4625	261500-4001
PolyRP-1000 (1000 Å)	261950-4603	261950-4605	261950-4610	261950-4615	261950-4625	261950-4001

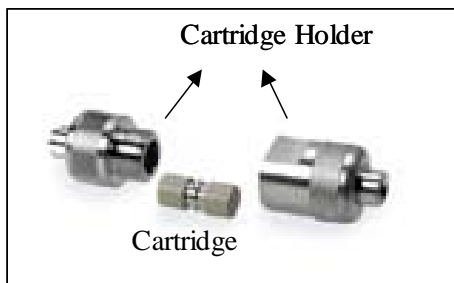
## Ordering Information

<b>10 µm Semi-Prep and Prep Columns (length x ID mm)</b>							Guard column
	150x7.8	250x7.8	100x10	150x10	250x10	50x10	
Phases	\$575	\$695	\$625	\$795	\$925	\$375	
PolyRP-100 (100 Å)	261100-7815	261100-7825	261100-10010	261100-10015	261100-10025	261100-10005	
PolyRP-300 (300 Å)	261300-7815	261300-7825	261300-10010	261300-10015	261300-10025	261300-10005	
PolyRP-500 (500 Å)	261500-7815	261500-7825	261500-10010	261500-10015	261500-10025	261500-10005	
PolyRP-1000(1000Å)	261950-7815	261950-7825	261950-10010	261950-10015	261950-10025	261950-10005	
	100x21.2	150x21.2	250x21.2	150x30	250x30	10x21.2**	
Phases	\$1,475	\$1,655	\$1,950	\$3,175	\$3,875	\$255	
PolyRP-100 (100 Å)	261100-21210	261100-21215	261100-21225	261100-30015	261100-30025	261100-21201	
PolyRP-300 (300 Å)	261300-21210	261300-21215	261300-21225	261300-30015	261300-30025	261300-21201	
PolyRP-500 (500 Å)	261500-21210	261500-21215	261500-21225	261500-30015	261500-30025	261500-21201	
PolyRP-1000(1000Å)	261950-21210	261950-21215	261950-21225	261950-30015	261950-30025	261950-21201	

\* Cartridge holder

P/N# 102000-2001, \$42.50/EA for 10x20 mm guard cartridge

P/N# 102000-4001, \$42.50/EA for 10x40 mm guard cartridge



\*\* Cartridge holder

P/N# 102000-21201, \$175/EA for 10x21.2 mm

guard cartridge



Analytical and Preparative Non-porous PolyRP Columns							
Phase	length x ID (mm x mm)	P/N	Price	Column	length x ID (mm x mm)	P/N	Price
1.7 $\mu$ m PolyRP-NP1.7	250x4.6	262002-4625	\$895.00	3 $\mu$ m PolyRP-NP3	250x4.6	262003-4625	\$695.00
	150x4.6	262002-4615	\$735.00		150x4.6	262003-4615	\$575.00
	100x4.6	262002-4610	\$595.00		100x4.6	262003-4610	\$495.00
	50x4.6	262-002-4605	\$495.00		50x4.6	262003-4605	\$395.00
	30x4.6	262002-4603	\$450.00		30x4.6	262003-4603	\$335.00
	150x2.1	262002-4605	\$695.00		150x2.1	262003-4605	\$595.00
	50x2.1	262002-4603	\$475.00		50x2.1	262003-4603	\$375.00
	5 $\mu$ m PolyRP-NP5	250x21.2	262005-21225		\$2450.00	10 $\mu$ m PolyRP-NP10	250x21.2
150x21.2		262005-21215	\$2095.00	150x21.2	262010-21215		\$1650.00
100x21.2		262005-21210	\$1850.00	100x21.2	262010-21210		\$1475.00
250x10		262005-10025	\$1050.00	250x10	262010-10025		\$895.00
250x7.8		262-052-7825	\$895.00	250x7.8	262010-7825		\$765.00
250x4.6		262005-4625	\$595.00	250x4.6	262010-4625		\$495.00
150x4.6		262005-4615	\$495.00	150x4.6	262010-4615		\$425.00
50x4.6		262005-4605	\$375.00	50x4.6	262010-4605		\$325.00
150x2.1		262005-2115	\$425.00	150x2.1	262010-2115		\$365.00
50x2.1		262005-2105	\$325.00	50x2.1	262010-2105		\$275.00

Guard Cartridges for Non-porous PolyRP Columns (Length x ID mm)							
Phase	Guard 10x2.0 mm*	Price		Guard 10x4.0 mm*	Price	Guard 21.2x10 mm**	Price
PolyRP-NP1.7 (1.7 $\mu$ m)	262002-2001	\$225		262002-4001	\$225	262002-21201	\$565
PolyRP-NP3 (3 $\mu$ m)	262003-2001	\$175		262003-4001	\$175	262003-21201	\$425
PolyRP-NP5 (5 $\mu$ m)	262005-2001	\$150		262005-4001	\$150	262005-21201	\$275
PolyRP-NP10 (10 $\mu$ m)	262010-2001	\$125		262010-4001	\$125	262010-21201	\$225

\* Cartridge holder

P/N# 102000-2001, \$42.50/EA for 10x20 mm guard cartridge

P/N# 102000-4001, \$42.50/EA for 10x40 mm guard cartridge

\*\* Cartridge holder

P/N# 102000-21201, \$175/EA for 10x21.2 mm guard cartridge

