

If PolymerX does not provide at least equivalent separation as compared to your PSDVB column of similar particle size and dimension, simply send us your comparative data within 45 days and keep the PolymerX column for FREE.

Reversed-Phase Polymer HPLC Columns

- Excellent alternative to other polystyrene divinylbenzene (PSDVB) columns
- High chemical strength and stability
- pH stable from 0-14
- No bonded phase = zero phase bleed
- Great for small proteins, peptides and biological molecules

PolymerX™ RP-1 consists of microporous (100 Å) polystyrene divinylbenzene (PSDVB), which is inherently similar to reversed-phase chemistries, displaying similar selectivity characteristics as C18-bonded silica columns. Because bare PSDVB shows similar selectivity to a C18 column, no surface ligands are bonded to the polymer. In turn, this means no phase collapse under high aqueous conditions, no bonded phase bleed at high temperature, and no phase hydrolysis.

Material Characteristics

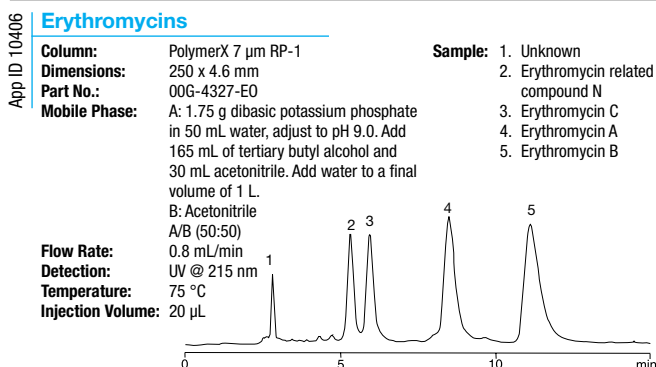
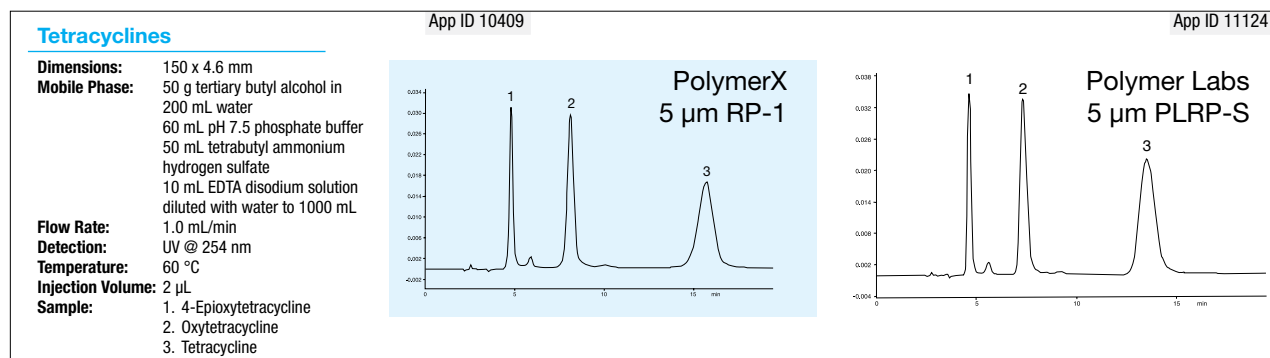
Packing Material	Particle Shape/Size (µm)	Pore Size	pH Stability
RP-1 (PSDVB)	Spherical 3, 5, 7, 10, 15	100 Å	0 - 14

Typical results and operating parameters of RP silica and polymer columns

	C18 silica	RP-polymer
Acidic silanols	present	absent
pH stability	2-9	0-14
Recovery*	~50-80 %	>95 %
Capacity*	1 mg	10-25 mg
Pressure limit	3500 psi	5000 psi
Temperature limit	60 °C	60 °C
Column lifetime		longer

*pertains to dimethyltritylated (DMT) synthetic oligomer purification on a 150 x 4.1 mm column

Chromatographic Comparison of Polymer Columns



Bulk Material*

Phases	10 g	Price
7 µm	04D-4327	
10 µm	04D-4328	
15 µm	04D-4345	

*Please inquire about larger quantities.

*SecurityGuard™ Analytical Cartridges require holder, Part No.: KJ0-4282
†Semi-prep SecurityGuard™ Cartridges require holder, Part No.: AJ0-7220

ORDERING INFORMATION

Phases	Stainless Steel Hardware Columns (mm)							RP-1 SecurityGuard™ Cartridges			
	50 x 4.0	150 x 2.0	150 x 4.1	150 x 4.6	250 x 4.1	250 x 4.6	250 x 10.0	250 x 21.2	4 x 2.0 mm /10pk	4 x 3.0 mm† /10pk	10 x 10 mm† /3pk
3 µm	00B-4338-D0	—	00F-4338-Z0	—	—	—	—	—	AJ0-5808	AJ0-5809	AJ0-7368
5 µm	00B-4326-D0	00F-4326-B0	00F-4326-Z0	00F-4326-E0	00G-4326-Z0	00G-4326-E0	—	—	for ID: 2.0-3.0 mm 3.2-8.0 mm 9-16 mm		
7 µm	—	—	—	—	—	00G-4327-E0	—	—			
10 µm	—	—	—	—	00G-4328-Z0	00G-4328-E0	00G-4328-N0	00G-4328-P0			

➔ See p. 88 for PolymerX Column Performance Check Standards.

➔ See p. 218 for SecurityGuard Cartridge Holders.

PLRP-S is a trademark of Polymer Laboratories, Ltd.