

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 long-lived solution for separating quaternary amines

PolymerX RP-1 is a porous (100 Å) polystyrene divinylbenzene media which has hydrophobic retention similar to a C18-bonded silica. Because the media is a polymer instead of silica, it is tolerant to pH extremes (0-14) and a good solution for high pH applications where silica-based media fail. PolymerX also delivers good lifetime for analytes like quaternary amines which strongly interact with bonded silica particles.

Material Characteristics

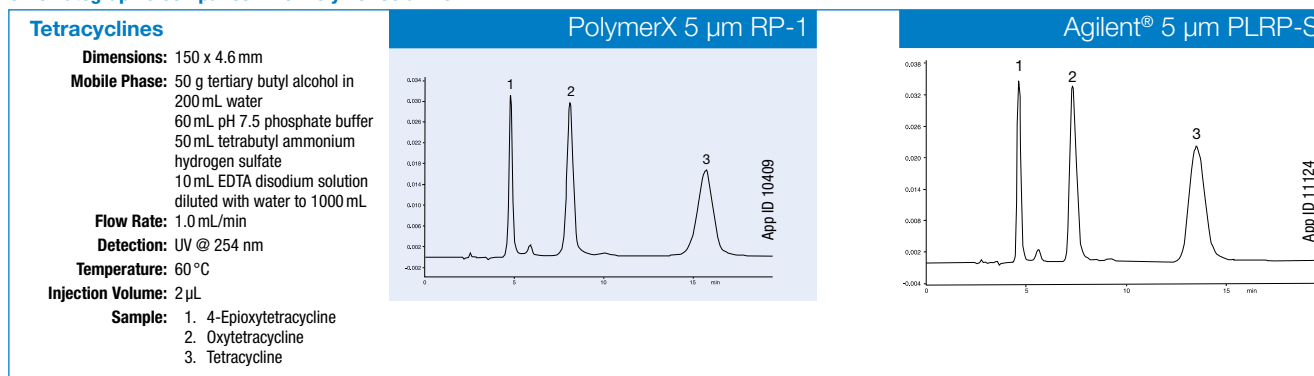
Packing Material	Particle Shape/Size (µm)	Pore Size (Å)	pH Stability
RP-1 (PSDVB)	Spherical 3, 5, 7, 10	100	0 - 14

Typical Results and Operating Parameters of RP Silica and Polymer Columns

Parameter	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	2500 psi
Temperature limit	60 °C	80 °C
Column lifetime		longer

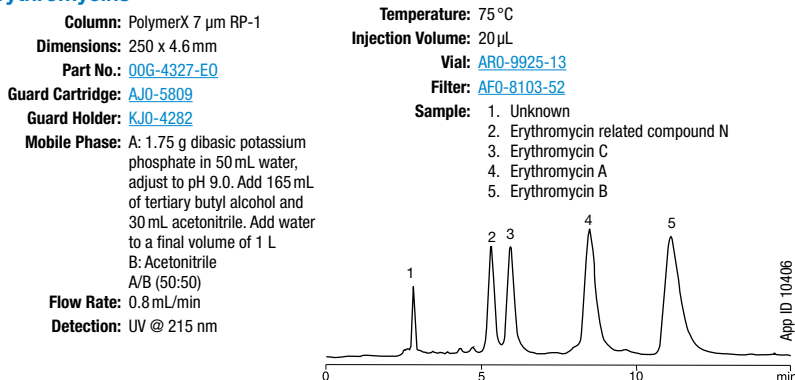
*pertains to dimethyltritylated (DMT) synthetic oligomer purification on a 150 x 4.1 mm column

Chromatographic Comparison** of Polymer Columns



**Comparative separations may not be representative of all applications.

Erythromycins



Ordering Information

PolymerX RP-1 Columns (mm)						
	150 x 4.1	150 x 4.6	250 x 4.1	250 x 4.6	250 x 10.0	250 x 21.2
3 µm	00F-4338-Z0	—	—	—	—	—
5 µm	00F-4326-Z0	00F-4326-EQ	00G-4326-Z0	00G-4326-EQ	—	—
7 µm	—	—	—	00G-4327-EQ	—	—
10 µm	—	—	00G-4328-Z0	00G-4328-EQ	00G-4328-NQ	00G-4328-PQ

RP-1 SecurityGuard™ Cartridges (mm)		
4 x 3.0*	10 x 10†	15 x 21.2**
/10pk	/3pk	/ea
AJ0-5809	AJ0-7368	AJ0-8358
for ID: 3.2-8.0 mm	9-16 mm	18-29 mm



Bulk media available upon request.



For PolymerX Column Performance Check Standards, see p. 424

*SecurityGuard Analytical Cartridges require holder, Part No.: [KJ0-4282](#)

†SemiPrep SecurityGuard Cartridges require holder, Part No.: [AJ0-9281](#)

**Prep SecurityGuard Cartridges require holder, Part No.: [AJ0-8223](#)