

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.

If PolymerX analytical columns do not provide at least equivalent separation as compared to your PSDVB column of similar particle size and dimension, return the column with comparative data within 45 days for a FULL REFUND.

Material Characteristics

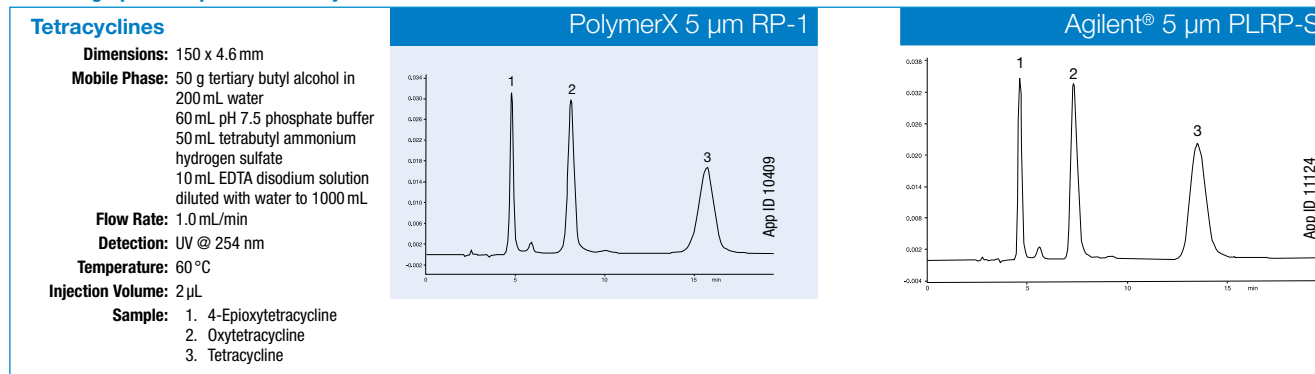
Packing Material	Particle Shape/Size (µm)	Pore Size (Å)	pH Stability
RP-1 (PSDVB)	Spherical 3, 5, 7, 10, 15	100	0 - 14

Typical Results and Operating Parameters of RP Silica and Polymer Columns

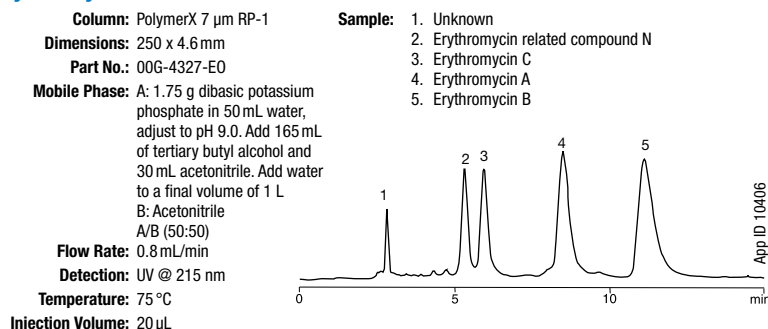
Parameter	C18 silica	RP-polymer
Acidic silanols	present	absent
pH stability	2-9	0-14
Recovery*	~50-80 %	>95 %
Capacity*	1 mg	10-25 mg
Pressure limit	3500 psi	2500 psi
Temperature limit	60 °C	80 °C
Column lifetime		longer

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

Chromatographic Comparison** of Polymer Columns



Erythromycins



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

Ordering Information

Stainless Steel Hardware Columns (mm)

Phases	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
3 µm	00B-4338-D0	—	00F-4338-Z0	—	—	—	—	—
5 µm	00B-4326-D0	00F-4326-B0	00F-4326-Z0	00F-4326-E0	00G-4326-Z0	00G-4326-E0	—	—
7 µm	—	—	—	—	—	00G-4327-E0	—	—
10 µm	—	—	—	—	00G-4328-Z0	00G-4328-E0	00G-4328-N0	00G-4328-P0

RP-1 SecurityGuard™ Cartridges (mm)

4 x 2.0*	4 x 3.0*	10 x 10*
/10pk	/10pk	/3pk
AJO-5808	AJO-5809	AJO-7368
for ID: 2.0-3.0 mm	3.2-8.0 mm	9-16 mm



For PolymerX Column Performance Check Standards, see p. 372



Bulk media available upon request.

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