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TK TSK-GEL PW and TSK-GEL PW_{XL} Columns

for Molecular Exclusion (GFC) of water soluble polymers.

The PW columns, with a spherical packing of porous hydrophilic methacrylate, are the most suitable for molecular exclusion of water soluble synthetic polymers, as they have a more linear calibration curve, a wider range of application and a lower absorption than the SW type columns.

They also demonstrate an excellent mechanical and chemical stability, enabling operation within a pH range of 2 to 12, and can be used with up to 50% of organic solvent as eluant.

Analytical and preparative TSK-Gel Size Exclusion polymer based column

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(µm)
Molecular weight of sample				
<i>Guard columns</i>				
TH-08034	Oligo Guard Column	6.0	4.0	12.0
TH-08033	PW _{XL} Guard Column	6.0	4.0	12.0
TH-06763	PW-L Guard Column	7.5	7.5	12.0
TH-06762	PW-L Guard Column	7.5	7.5	12.0

Bulk packing

TH-08035	PWXL Top-Off, 1g wet resin		10.0	
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Analytical and preparative TSK-Gel Size Exclusion polymer based column

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(µm)
<i>Stainless steel columns</i>				
TH-08031	G-Oligo-PW	7.8	30	6
TH-08032	G-DNA-PW	7.8	30	10
TH-08020	G2500PW _{XL}	7.8	30	6
TH-08021	G3000PW _{XL}	7.8	30	6
TH-08022	G4000PW _{XL}	7.8	30	10
TH-08023	G5000PW _{XL}	7.8	30	10
TH-08024	G6000PW _{XL}	7.8	30	13
TH-08025	GMPW _{XL}	7.8	30	13
TH-05760	G1000PW	7.5	30	10
TH-05761	G2000PW	7.5	30	10
TH-08028	G2500PW	7.5	30	10
TH-05762	G3000PW	7.5	30	10
TH-05763	G4000PW	7.5	30	17
TH-05764	G5000PW	7.5	30	17
TH-05765	G6000PW	7.5	30	17
TH-08026	GMPW	7.5	30	17
TH-05105	G2000PW	7.5	60	10
TH-08029	G2500PW	7.5	60	10
TH-05106	G3000PW	7.5	60	10
TH-05107	G4000PW	7.5	60	17
TH-05108	G5000PW	7.5	60	17
TH-05109	G6000PW	7.5	60	17
TH-08027	GMPW	7.5	60	17

Properties and separation rates for TSK-GEL PW-type packings

TSKgel packing	Particle size (µm)	Average Pore size (a)	Molecular weight of sample (DA)		
			Polyethylene glycols & oxides	Dextrans**	Globular proteins
G1000PW	10	< 100	up to 1,000	---	<2,000
G2000PW	10, 17, 20	125	up to 2,000	---	<5,000
G2500PW _{XL}	6	< 200	up to 3,000	---	<8,000
G2500PW	10, 17, 20				
G3000PW _{XL}	6	200	up to 5 x 10 ⁴	up to 6 x 10 ⁴	500 - 8 x 10 ⁵
G4000PW _{XL}	10	500	2,000 - 3 x 10 ⁴	1,000 - 7 x 10 ⁵	1 x 10 ⁴ - 1.5 x 10 ⁶
G4000PW	17, 22				
G5000PW _{XL}	10	1000	4,000 - 1 x 10 ⁶	5 x 10 ⁴ - 2.5 x 10 ⁶	< 1 x 10 ⁷
G5000PW	17, 20, 22				
G6000PW _{XL}	13	< 1000	4 x 10 ⁴ - 8 x 10 ⁶	5 x 10 ⁵ - 5 x 10 ⁷	< 2 x 10 ⁸
G6000PW	17, 25				
GMPW _{XL}	13	< 100 - 1,000	500 - 8 x 10 ⁶	< 5 x 10 ⁷	< 2 x 10 ⁸
GMPW	17				
G-Oligo-PW	6	125	up to 3,000	---	< 3,000
G-DNA-PW	10	< 1,000	4 X 10 ⁴ - 8 X 10 ⁶	< 5 X 10 ⁷	< 2 X 10 ⁸

Data generated using the following conditions:

Column: TSK-GEL PW columns, 7.5mm x 60cm; TSKgelPW_{XL}, G-Oligo-PW & G-DNA-PW, 7.8MM x 30cm

Elution: Polyethylene glycols and oxides: distilled water, dextrans and proteins: 0.2M phosphate buffer, pH 6.8.

Flow rate: 1.0mL/min

Note: * Larger particle sizes of each group are for 21.5mm x 60cm semi-preparative and 55mm or 108mm x 60cm preparative columns.

** Maximum separation range determined from estimated exclusion limits.



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