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Find the *Tosoh Bioscience TSKgel G5000PWXL* at our website: ***Click HERE***

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 upto 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				
Guard columns				
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	

Analytical and preparative TSK-Gel Size Exclusion polymer based column

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(µm)
Stainless steel columns				
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 packiings

			Molecular weight of sample (DA)		
TSKgel packing	**Particle size (µm)**	**Average Pore size (a)**	**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: Pollyethylene 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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