

TK TSK-GEL H6, TSK-GEL H8 ...

for Molecular Exclusion Chromatography

All the range is made of porous, spherical particles of highly crosslinked polystyrene-divinylbenzene.

H6, H8, and XL designate different sizes of particle and therefore of efficiency. The polymer of the HHR series has special properties of chemical resistance, giving an exceptional resistance to the most diverse organic solvents, so making the column much more versatile than the majority of those on the market.

We also have available Multipore columns, which cover a wide range of molecular weights and give excellent linearity.

Properties of H-type columns

TSKgel column	Average Pore Size (Å)	Exclusion limit*	Temperature (°C)	Application area
G1000H6, H8, H _{XL}	15	1 X 10 ³	60	small molecules, oligomers
G1000H _{HR}	15	< 1.5 X 10 ³	140	small molecules, oligomers
G2000H6, H8, H _{XL}	20	1 X 10 ⁴	60	oligomers
G2000H _{HR}	20	< 4 X 10 ³	140	oligomers
G2500H6, H8, H _{XL}	30	2 X 10 ⁴	60	oligomers
G2500H _{HR}	30	< 1.2 X 10 ⁴	140	oligomers
G3000H6, H8, H _{XL}	75	6 X 10 ⁴	60	oligomers, polymers
G3000H _{HR}	75	< 3 X 10 ⁴	140	oligomers, polymers
G4000H6, H8, H _{XL}	200	4 X 10 ⁵	80	polymers
G4000H _{HR}	200	< 1.5 X 10 ⁵	140	polymers
G5000H6, H8, H _{XL}	650	4 X 10 ⁶	80	polymers
G5000H _{HR}	650	< 1.5 X 10 ⁶	140	polymers
G6000H6, H8, H _{XL}		4 X 10 ⁷	80	polymers
G6000H _{HR}		< 1 X 10 ⁷	140	polymers
G7000H6, H8, H _{XL}		4 X 10 ⁸ **	80	polymers
G7000H _{HR}		< 1.5 X 10 ⁷	140	polymers
GMH _{HR} -L (mixed bed)	4 - 500	< 1 X 10 ⁴	140	oligomers with low MW range
GMH _{HR} -N		< 1.5 X 10 ⁵	140	polymers with medium MW range
GMH _{HR} -M		< 1 X 10 ⁶	140	polymers with broad MW range
GMH6, H _{XL}		4 X 10 ⁸ **	80	polymers with BROADMW range
GMH _{XL} -L		4 X 10 ⁸ **	80	high resolution of MW polymers with a total profile of high MW polymers
GMH6, -HT, H _{XL} - HT (Mixed bed/high temperature)		4 X 10 ⁸ **	140	high temperature separations of polymers with broad MW range
MultiporeH _{XL} -m	Wide pore distribution	500 to 2 X 10 ⁶	60	polymers with broad MW range

* polystyrene standards

** estimate

...TSK-GEL HXL, TSK-GEL HHR Columns **Tk**

of polymers soluble in organic media.

TSK-Gel GCP Columns

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(μm)
Stainless Steel columns				
TH-17352	G1000H _{HR}	7.8	30	5
TH-17353	G2000H _{HR}	7.8	30	5
TH-17354	G2500H _{HR}	7.8	30	5
TH-17355	G3000H _{HR}	7.8	30	5
TH-17356	G4000H _{HR}	7.8	30	5
TH-17357	G5000H _{HR}	7.8	30	5
TH-17358	G6000H _{HR}	7.8	30	5
TH-17359	G7000H _{HR}	7.8	30	5
TH-17362	GMH _{HR} -L mixed bed	7.8	30	5
TH-18055	GMH _{HR} -N mixed-bed	7.8	30	5
TH-17392	GMH _{HR} -M mixed-bed	7.8	30	5
TH-17360	GMH _{HR} -H mixed-bed	7.8	30	5
TH-18393	GMH _{HR} -H(S) mixed-bed	7.8	30	13

TSK-Gel GCP Columns

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(μm)
Stainless Steel columns				
TH-16131	G1000H _{XL}	7.8	30	5
TH-16134	G2000H _{XL}	7.8	30	5
TH-16135	G2500H _{XL}	7.8	30	5
TH-16136	G3000H _{XL}	7.8	30	6
TH-16137	G4000H _{XL}	7.8	30	6
TH-16652	GMH _{XL} -L mixed bed	7.8	30	6
TH-16138	G5000H _{XL}	7.8	30	9
TH-16139	G6000H _{XL}	7.8	30	9
TH-16140	G7000H _{XL}	7.8	30	9
TH-16141	GMH _{XL} - mixed-bed	7.8	30	9
TH-07112	GMH _{XL} - HT	7.8	30	13
TH-18403	Multipore H _{XL} - M	7.8	30	5
TH-05362	G1000H8	7.5	30	10
TH-05363	G2000H8	7.5	30	10
TH-06717	G2500H8	7.5	30	10
TH-05364	G3000H8	7.5	30	10
TH-05365	G4000H8	7.5	30	10

TSK-Gel GCP Columns

Cat.No.	Description	ID (mm)	Length (cm)	Particle size(μm)	Use
Guard columns					
TH-18404	MultiporeH _{XL} -M guard column	6.0	4.0	5	For P/N TH-18403
TH-07113	HXL-L Guard column	6.0	4.0	7	For G1000H _{XL} through GMH _{XL} -L
TH-13727	H _{XL} -H Guard column	6.0	4.0	5	For G5000H _{XL} through GMH _{XL}
TH-05156	H8 Guard column	7.5	7.5	10	For 7.5mm ID H8
TH-05157	H6 Guard column	7.5	7.5	13	For 7.5mm ID H6
TH-05158	HM Guard column	7.5	7.5	40	For 7.5mm ID GMBH6 & P/N TH-07112 (order with ODCB)
TH-17368	Guard column H _{HR} -L and H _{HR}	6.0	4.0	5	For G1000-4000H _{HR} and P/N TH-17362
TH-17369	Guard column H _{HR} -H and H _{HR}	6.0	4.0	5	For G5000-7000H _{HR} and P/Ns 18055, 17392 and 17360

TSK COLUMNS FOR IONIC INTERCHANGE AND HYDROPHOBIC INTERACTION ON DEMAND