

TSK-GEL Alpha Columns **Tk**

for Molecular Exclusion of polymers soluble in water and in organic media.

A new hydrophilic polyvinyl resin with extraordinary chemical and physical properties allows operation with aqueous as well as organic eluants without the appearance of any phenomenon of "swelling" common to other polymeric packings.

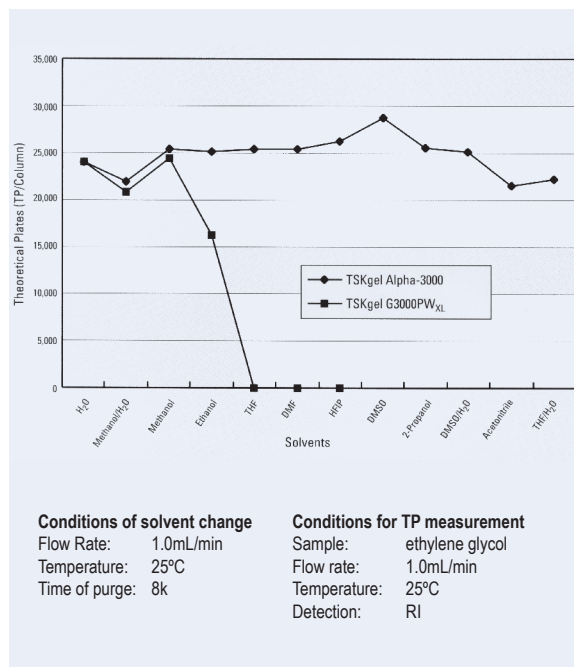
Additionally, absorptions due to hydrophobic inter-actions common to other columns of styrene-divinyl benzene are avoided. This even permits the chromatography of polymers soluble in methanol.

TSK-Gel Alpha Series

Cat.No.	Description	ID (mm)	Length (cm)	Particle size (µm)
Molecular weight of sample				
Stainless Steel columns				
TH-18339	Alpha-2500	7.8	30	7
TH-18340	Alpha-3000	7.8	30	7
TH-18341	Alpha-4000	7.8	30	10
TH-18342	Alpha-5000	7.8	30	10
TH-18343	Alpha-6000	7.8	30	13
TH-18344	Alpha-M (mixed bed)	7.8	30	13

Guard columns

TH-18345	Alpha Guard column	6	4	13
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Exclusion limits for TSK-GEL Alpha Series columns

Exclusion limit (Da for various standards and eluents)

Column	Particle size (µm)	PEO ^a /H ₂ O	PS ^b /10mM LiBr in DMF	PEG ^c /10mM LiBr in MeOH
Alpha-2500	7	5 x 10 ³	1 x 10 ⁴	1 x 10 ⁴
Alpha-3000	7	9 x 10 ⁴	1 x 10 ⁵	6 x 10 ⁴
Alpha-4000	10	x 10 ⁵	1 x 10 ⁶	3 x 10 ⁶
Alpha-5000	10	1 x 10 ⁶	7 x 10 ⁶	N.D.
Alpha-6000	13	> 1 x 10 ⁷	> 1 x 10 ⁷	N.D.
Alpha-M	13	> 1 x 10 ⁷	> 1 x 10 ⁷	N.D.

N.D = not determined

a Polyethylene oxide

b Polystyrene Divinyl Benzene

c Polyethylene glycol