

Im Leuschnerpark 4, 64347 Griesheim, Germany Tel: +49 6155-7043700 Fax: +49 6155-8357900 E-Mail: info.tbg@tosoh.com Web: www.tosohbioscience.de 3604 Horizon Drive, Suite 100, King of Prussia, PA 19406, USA Tel: +1 800-366-4875 Fax: +1 610-272-3028 E-Mail: info.tbl@tosoh.com Web: www.tosohbioscience.com

OPERATING CONDITIONS and SPECIFICATIONS

TSKgel[®] Octadecyl-NPR[™] Products

Part Numbers:	0014005	4.6 mm ID x 3.5 cm L	2.5 µm
Accessories:	0003410 0003411	Pre-Column Filter with 0.5 micron SS Frit Replacement 0.5 μ Frits, for 03410, pk 10	

This sheet contains the recommended operating conditions and the specifications for **TSKgel** Octadecyl-NPR column Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1.	Shipping Solvent:	70% Methanol - 30% Water (v/v)	
2.	Max.Flow Rate:	1.	6 mL/min
	NOTE:		When a buffer with high viscosity is used, the maximum flow rate may have to be reduced so as not to exceed the maximum pressure drop. When changing solvents, use a flow rate equal to 25% of the maximum flow rate.
3.	Standard Flow Rate:	1.0 - 1	5 mL/min
4.	Max. Pressure:	2	0 MPa
5.	pH Range:	2 - 1	2 pH above 12 or below 2 can only be used for a short time
6.	Salt Conc.:	≤ 0.5	М
7.	Organic Conc.:	0 - 1004	%
8.	Temperature:	0 - 60°	c
9.	Cleaning Solvents:		 Acetonitrile or Methanol, or Aqueous buffer in organic solvent 0.1 - 0.2 M NaOH, or 20 - 40% acetic acid aq., or 60% Acetonitrile/40% 0.2 M NaOH
	NOTE:		Clean the column regularly by injecting up to one column volume cleaning solution in 100 - 250 μL increments.
10.	Storage:		Store the column in the shipping solvent when it will not be used the next day. For overnight storage flush the column with the mobile phase at 0.2 ml/min. Avoid air to enter the column!
11.	Column Protection:		No guard column is available for the TSKgel Octadecyl-NPR column. Be sure to use a filter after the injector with 0.5 micron pores to avoid frequent plugging of the one micron pore size NPR column frit. We also recommend a pre-injector membrane filter to prevent particles from pump seal wear to reach the column.
	NOTE:		Use high quality reagents, water and solvents for preparing buffers. Fouling of the resin, leading to a loss in retention and/or efficiency occurs faster due to the small surface area of non-porous resin particles.
B. SI	B. SPECIFICATIONS The performance of TSKgel Octadecyl-NPR columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications		
Ν	Jumber of Theoretical Plates (N):	≥ 1000	
A	Asymmetry Factor (AF):	1.0 - 2.0	

Note our technical hotline tel +49 6155 70437-36 and e-mail, techsupport.tbg@tosoh.com