

TSK-GEL[®] NH₂-100 Products

Part Numbers:	21967, 2.0mm ID x 5cm, 3 μ m 21968, 2.0mm ID x 15cm, 3 μ m 21969, 4.6mm ID x 5cm, 3 μ m 21970, 4.6mm ID x 15cm, 3 μ m 21999, NH ₂ -100 DC, 4.6mm ID x 5cm, 3 μ m	21971, Guard Cartridge, 2mm ID x 1cm, for 2mm ID columns 19308, Guard Cartridge Holder, for 2mm ID cartridges 21972, Guard Cartridge, 3.2mm ID x 1.5cm, for 4.6mm ID columns 19018, Guard Cartridge Holder, for 3.2mm ID cartridges
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This sheet contains the recommended operating conditions and the specifications for TSK-GEL NH₂-100 and NH₂-100 DC columns and guard cartridge columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS	
1. Shipping Solvent:	85% Acetonitrile - 15% Water
2. Standard Flow Rate:	0.20 mL/min (2.0mm ID) 1.0 mL/min (4.6mm ID)
3. Max. Pressure:	15 MPa (2.0mm ID x 5cm) 20 MPa (2.0mm ID x 15cm) 5 MPa (4.6mm ID x 5cm for NH ₂ -100 and NH ₂ -100 DC) 15 MPa (4.6mm ID x 15cm)
4. pH Range:	2.0 - 7.5
5. Temperature:	10 - 50°C
6. Cleaning Solvents:	Sample property: Hydrophobic compounds Water-soluble organic solvents, such as 70-95% Acetonitrile and methanol in aqueous buffer Sample property: Hydrophilic compounds Water-soluble organic solvents such 5-10% Acetonitrile and methanol in aqueous buffer
7. Storage:	If the column is used in routine daily operation, it is permissible to leave the mobile phase in the column overnight if the mobile phase is not corrosive. If halides are included in the mobile phase, it is better to replace the mobile phase with a suitable solvent even for one night. If the column will not be used for several days, it should be stored as follows: <ul style="list-style-type: none"> • Purge the system with the "packed solvent" shown in the INSPECTION DATA sheet at a flow rate one-half of the standard flow rate (purge the system with distilled or ion-exchanged water if you have used a buffer solution as a mobile phase which contains salt in considerably high concentrations). • Remove the column from the system and keep the ends of the columns tightly capped with the end plugs supplied with the column. • Store the column at a relatively constant temperature in its original shipping container. Take care not to allow the column to freeze during storage.
B. SPECIFICATIONS	
The performance of TSK-GEL NH ₂ -100 and NH ₂ -100 DC columns are tested under the conditions described in the data sheet. All columns have passed the following quality control specifications:	
1. Number of Theoretical Plates (N):	4,000 (2.0mm ID x 5cm) 15,000 (2.0mm ID x 15cm) 6,000 (4.6mm ID x 5cm for NH ₂ -100 and NH ₂ -100 DC) 18,000 (4.6mm ID x 15cm)
2. Asymmetry Factor (AF):	0.90 – 1.35 (2.0mm ID x 5cm) 0.90 – 1.35 (2.0mm ID x 15cm) 0.90 – 1.30 (4.6mm ID x 5cm for NH ₂ -100 and NH ₂ -100 DC) 0.90 – 1.30 (4.6mm ID x 15cm)

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