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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel[®] NH₂-100 Products

Part	Num	bers:
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Numbers:	0021967	2.0 mm ID x 5.0 cm L		3 µm
	0021999	4.6 mm ID x 5.0 cm L	NH2-100 DC (direct connect)	3 µm
	0021968	2.0 mm ID x 15.0 cm L	, , , , , , , , , , , , , , , , , , ,	3 µm
	0021969	4.6 mm ID x 5.0 cm L		3 µm
	0021970	4.6 mm ID x 15.0 cm L		3 µm
	0021971	2.0 mm ID x 1.0 cm L	Guard Cartridge for 2.0 mm ID columns	
	0019308		Guard Cartridge Holder, for 2.0 mm ID cartridges	
	0021972	3.2 mm ID x 1.5 cm L	Guard Cartridge for 4.6 mm ID columns	
	0019018		Guard Cartridge Holder, for 3.2 mm ID cartridges	

This sheet contains the recommended operating conditions and the specifications for TSKgel NH₂-100 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:	0.2 1.0	mL/min mL/min	2.0 mm ID 4.6 mm ID
3.	Max. Pressure:	15 20 5 15	MPa MPa MPa MPa	2.0 mm ID x 5.0 cm L 2.0 mm ID x 15.0 cm L 4.6 mm ID x 5.0 cm L 4.6 mm ID x 15.0 cm L
4.	pH Range:	2.0 - 7.5		
5. 6.	Salt Conc.: Organic Conc.:	No limitation No limitation		
7.	Temperature:	10 - 50°C.		
8.	Cleaning Solvents:			property: Hydrophobic compounds oluble organic solvents, such as 70-95% Acetonitrile and methanol in aqueous buffer
				property: Hydrophilic compounds oluble organic solvents such 5-10% Acetonitrile and methanol in aqueous buffer
9.	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 co	lumn will not be used for several days, it should be stored as follows:
		1.	one-half	the system with the "packed solvent" shown in the INSPECTION DATA sheet at a flow rate of the standard flow rate (purge the system with distilled or ion-exchanged water if you ed a buffer solution as a mobile phase which contains salt in considerably high rations).
		2.		the column from the system and keep the ends of the columns tightly capped with the s supplied with the column.
		3.		e column at a relatively constant temperature in its original shipping container. Take care low the column to freeze during storage.

B. SPECIFICATIONS

The performance of TSKgel $NH_2\text{-}100$ columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N):	\geq 4,000 \geq 15,000 \geq 6,000 \geq 18,000	2.0 mm ID x 5.0 cm L 2.0 mm ID x 15.0 cm L 4.6 mm ID x 5.0 cm L 4.6 mm ID x 15.0 cm L
Asymmetry Factor (AF):		2.0 mm ID x 5.0 cm L 2.0 mm ID x 15.0 cm L 4.6 mm ID x 5.0 cm L 4.6 mm ID x 15.0 cm L