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OPERATING CONDITIONS and SPECIFICATIONS

TSK-GEL® ODS-120T Products

Part Numbers:	18152	2.0 mm ID x 15.0 cm L	5 µm
	18153	2.0 mm ID x 25.0 cm L	5 µm
	07637	4.6 mm ID x 15.0 cm L	5 µm
	07125	4.6 mm ID x 25.0 cm L	5 µm
	07130	7.8 mm ID x 30.0 cm L	10 µm
	07134	21.5 mm ID x 30.0 cm L	10 µm
	07642	21.5 mm ID x 7.5 cm L	Guardcolumn, 120 A/T

This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-120T columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1. Shipping Solvent: 70% Methanol - 30% Water
2. Max.Flow Rate:

0.22 ml/min	2.0 mm ID
1.20 ml/min	4.6 mm ID
3.00 ml/min	7.8 mm ID
12.0 ml/min	21.5 mm ID

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:

0.15 - 0.18 ml/min	2.0 mm ID
0.80 - 1.00 ml/min	4.6 mm ID
1.00 - 2.00 ml/min	7.8 mm ID
3.00 - 6.00 ml/min	21.5 mm ID
4. Max. Pressure:

150 kg/cm ² = 2200 psi	15.0 cm L column
200 kg/cm ² = 2900 psi	25.0 cm L column
75 kg/cm ² = 1100 psi	7.8 mm ID
60 kg/cm ² = 900 psi	21.5 mm ID
5. pH Range: 2.0 - 7.5
6. Organic Conc.: 0 - 100%
7. Temperature: 10 - 50°C Reduce flow rate when operating below 10°C
8. Cleaning Solvents:
 - (1) Acetonitrile or Methanol, or
 - (2) gradient from 10% to 100% acetonitrile in 0.05% trifluoroacetic acid
9. Storage: Store the column in acetonitrile or methanol when it will not be used the next day. For overnight storage flush the column with the mobile phase at 0.2 ml/min.
10. Column Protection: The use of guard columns is recommended to prolong the life of the analytical column. Guard column life depends greatly on sample cleanliness. As a general rule, guard columns should be replaced after every 30 - 40 sample injections or when the peaks become excessively wide or when the peaks show splitting.

B. SPECIFICATIONS

The performance of TSK-GEL ODS-120T 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):	≥ 6,500	2.0 mm ID x 15.0 L cm column
	≥ 7,000	15.0 cm L column
	≥ 10,000	25.0 cm L column
	≥ 6,000	7.8 mm ID and 21.5 mm ID column
Asymmetry Factor (AF):	0.8 - 1.7	2.0 mm ID
	0.7 - 1.8	4.6 mm ID and 6.0 mm ID
	0.7 - 1.9	7.8 mm ID and 21.5 mm ID