

TSK-GEL® G2500PWxl Products

Part Numbers:	08020, 7.8mm ID X 30cm, 7µm 08035, TSKtop-off gel PWxl, 1g wet gel	08033, Guard Column for P/N 08020, 6mm ID X 4cm
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This sheet contains the recommended operating conditions and the specifications for TSK-GEL G2500PW_{XL} column. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

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| 1. Shipping Solvent: | Water |
| 2. Max. Flow Rate: | 1.0 mL/min |
| | 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: | 0.5 - 0.8 mL/min |
| 4. Max. Pressure: | 40 kg/cm ² = 600 psi |
| 5. pH Range: | 2.0 - 12.0 |
| 6. Salt Conc.: | ≤ 0.5 Molar |
| 7. Organic Conc.: | ≤ 20%. It is possible to use up to 50% organic when the solvent change is made very gradually using a shallow gradient at low flow rate. |
| 8. Temperature: | 10 - 80°C. Reduce flow rate when operating below 10°C. |
| 9. Cleaning Solvents: | (1) High salt concentration buffer (0.5 - 1.0M), or
(2) pH 2 - 3 or pH 9 - 12 buffer, or
(3) Buffer with acetonitrile or methanol, or
(4) Buffer with urea or SDS |
| | NOTE: Choose a cleaning solvent based on sample properties, e.g. use (1) to remove basic polymers, (3) to remove hydrophobic proteins etc. |
| 10. Storage: | Store the column in a 0.05% NaN ₃ solution or 20% ethanol in DI water when it will not be used the next day. For overnight storage flush the column at low flow rate with the mobile phase. Prevent air from entering the column! |
| 11. 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, when the peaks become excessively wide, or when the peaks show splitting. |
| 12. TSKtop-off gel: | Occasionally, due to accident, sample, mobile phase or operational variables, a depression can develop at the column or guard column inlet. Use TSKtop-off gel PW _{XL} for filling in such voids. |

B. SPECIFICATIONS

The performance of TSK-GEL G2500PW_{XL} columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

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| 1. Number of Theoretical Plates (N): | ≥ 16,000 |
| 2. Asymmetry Factor (AF): | 0.7 - 1.6 |

DS1022 21DECEMBER2006Revised

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