

OPERATING CONDITIONS and SPECIFICATIONS

TSK-GEL® ODS-100Z Products

Part Numbers:	22726, 2mm ID x 1cm, 3µm, 3pk	22748, 2mm ID x 1cm, 5µm	21996, Guard Cartridges for 2mm ID, 3µm columns, 3pk
	22727, 2mm ID x 2cm, 3µm	22749, 2mm ID x 2cm, 5µm	
	22728, 2mm ID x 3.5cm, 3µm	22750, 2mm ID x 3.5cm, 5µm	21995, Guard Cartridges for 2mm ID, 5µm columns, 3pk
	22729, 2mm ID x 5cm, 3µm	21460, 2mm ID x 5cm, 5µm	21454, Guard Cartridges for 4.6mm ID, 5µm columns, 3pk
	22730, 2mm ID x 7.5cm, 3µm	22751, 2mm ID x 7.5cm, 5µm	
	22731, 2mm ID x 10cm, 3µm	22752, 2mm ID x 10cm, 5µm	19308, Guard Cartridge Holder for 2mm ID cartridges
	22732, 2mm ID x 15cm, 3µm	21459, 2mm ID x 15cm, 5µm	19018, Guard Cartridge Holder for 3.2mm ID cartridges
	22733, 2mm ID x 25cm, 3µm	22753, 2mm ID x 25cm, 5µm	
	22734, 3mm ID x 2cm, 3µm	22754, 3mm ID x 2cm, 5µm	
	22735, 3mm ID x 3.5cm, 3µm	22755, 3mm ID x 3.5cm, 5µm	
	22736, 3mm ID x 5cm, 3µm	22756, 3mm ID x 5cm, 5µm	
	22737, 3mm ID x 7.5cm, 3µm	22757, 3mm ID x 7.5cm, 5µm	
	22738, 3mm ID x 10cm, 3µm	22758, 3mm ID x 10cm, 5µm	
	22739, 3mm ID x 15cm, 3µm	22759, 3mm ID x 15cm, 5µm	
	22740, 3mm ID x 25cm, 3µm	22760, 3mm ID x 25cm, 5µm	
	22741, 4.6mm ID x 2cm, 3µm	22761, 4.6mm ID x 2cm, 5µm	
	22742, 4.6mm ID x 3.5cm, 3µm	22762, 4.6mm ID x 3.5cm, 5µm	
	22743, 4.6mm ID x 5cm, 3µm	22763, 4.6mm ID x 5cm, 5µm	
	22744, 4.6mm ID x 7.5cm, 3µm	22764, 4.6mm ID x 7.5cm, 5µm	
	22745, 4.6mm ID x 10cm, 3µm	22765, 4.6mm ID x 10cm, 5µm	
	22746, 4.6mm ID x 15cm, 3µm	21461, 4.6mm ID x 15cm, 5µm	
	22747, 4.6mm ID x 25cm, 3µm	21462, 4.6mm ID x 25cm, 5µm	

This sheet contains the recommended operating conditions and specifications for TSK-GEL ODS-100Z columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS																																																																																																	
1. Shipping Solvent:	Acetonitrile																																																																																																
2. Standard Flow Rate:	0.05mL/min (1mm ID) 0.20mL/min (2mm ID) 0.43mL/min (3mm ID) 1.00mL/min (4.6mm ID)																																																																																																
4. Max. Pressure:	<table border="1"> <thead> <tr> <th colspan="2">TSK-GEL ODS-100Z, 3µm columns</th> <th colspan="2">TSK-GEL ODS-100Z, 5µm columns</th> </tr> <tr> <th>Max. Pressure (MPa)</th> <th>Column Size</th> <th>Max. Pressure (MPa)</th> <th>Column Size</th> </tr> </thead> <tbody> <tr><td>30</td><td>2mm ID x 1cm</td><td>28</td><td>2mm ID x 1cm</td></tr> <tr><td>12</td><td>2mm ID x 2cm</td><td>9</td><td>2mm ID x 2cm</td></tr> <tr><td>15</td><td>2mm ID x 3.5cm</td><td>9</td><td>2mm ID x 3.5cm</td></tr> <tr><td>15</td><td>2mm ID x 5cm</td><td>18</td><td>2mm ID x 5cm</td></tr> <tr><td>21</td><td>2mm ID x 7.5cm</td><td>18</td><td>2mm ID x 7.5cm</td></tr> <tr><td>24</td><td>2mm ID x 10cm</td><td>18</td><td>2mm ID x 10cm</td></tr> <tr><td>24</td><td>2mm ID x 15cm</td><td>18</td><td>2mm ID x 15cm</td></tr> <tr><td>30</td><td>2mm ID x 25cm</td><td>18</td><td>2mm ID x 25cm</td></tr> <tr><td>12</td><td>3mm ID x 2cm</td><td>9</td><td>3mm ID x 2cm</td></tr> <tr><td>12</td><td>3mm ID x 3.5cm</td><td>9</td><td>3mm ID x 3.5cm</td></tr> <tr><td>15</td><td>3mm ID x 5cm</td><td>12</td><td>3mm ID x 5cm</td></tr> <tr><td>21</td><td>3mm ID x 7.5cm</td><td>18</td><td>3mm ID x 7.5cm</td></tr> <tr><td>24</td><td>3mm ID x 10cm</td><td>18</td><td>3mm ID x 10cm</td></tr> <tr><td>24</td><td>3mm ID x 15cm</td><td>18</td><td>3mm ID x 15cm</td></tr> <tr><td>30</td><td>3mm ID x 25cm</td><td>18</td><td>3mm ID x 25cm</td></tr> <tr><td>12</td><td>4.6mm ID x 2cm</td><td>9</td><td>4.6mm ID x 2cm</td></tr> <tr><td>12</td><td>4.6mm ID x 3.5cm</td><td>9</td><td>4.6mm ID x 3.5cm</td></tr> <tr><td>15</td><td>4.6mm ID x 5cm</td><td>12</td><td>4.6mm ID x 5cm</td></tr> <tr><td>21</td><td>4.6mm ID x 7.5cm</td><td>18</td><td>4.6mm ID x 7.5cm</td></tr> <tr><td>24</td><td>4.6mm ID x 10cm</td><td>18</td><td>4.6mm ID x 10cm</td></tr> <tr><td>24</td><td>4.6mm ID x 15cm</td><td>18</td><td>4.6mm ID x 15cm</td></tr> <tr><td>30</td><td>4.6mm ID x 25cm</td><td>21</td><td>4.6mm ID x 25cm</td></tr> </tbody> </table>	TSK-GEL ODS-100Z, 3µm columns		TSK-GEL ODS-100Z, 5µm columns		Max. Pressure (MPa)	Column Size	Max. Pressure (MPa)	Column Size	30	2mm ID x 1cm	28	2mm ID x 1cm	12	2mm ID x 2cm	9	2mm ID x 2cm	15	2mm ID x 3.5cm	9	2mm ID x 3.5cm	15	2mm ID x 5cm	18	2mm ID x 5cm	21	2mm ID x 7.5cm	18	2mm ID x 7.5cm	24	2mm ID x 10cm	18	2mm ID x 10cm	24	2mm ID x 15cm	18	2mm ID x 15cm	30	2mm ID x 25cm	18	2mm ID x 25cm	12	3mm ID x 2cm	9	3mm ID x 2cm	12	3mm ID x 3.5cm	9	3mm ID x 3.5cm	15	3mm ID x 5cm	12	3mm ID x 5cm	21	3mm ID x 7.5cm	18	3mm ID x 7.5cm	24	3mm ID x 10cm	18	3mm ID x 10cm	24	3mm ID x 15cm	18	3mm ID x 15cm	30	3mm ID x 25cm	18	3mm ID x 25cm	12	4.6mm ID x 2cm	9	4.6mm ID x 2cm	12	4.6mm ID x 3.5cm	9	4.6mm ID x 3.5cm	15	4.6mm ID x 5cm	12	4.6mm ID x 5cm	21	4.6mm ID x 7.5cm	18	4.6mm ID x 7.5cm	24	4.6mm ID x 10cm	18	4.6mm ID x 10cm	24	4.6mm ID x 15cm	18	4.6mm ID x 15cm	30	4.6mm ID x 25cm	21	4.6mm ID x 25cm
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5. pH Range:	2.0 - 7.5																																																																																																
6. Salt Conc. Range:	No limitation																																																																																																
7. Organic Conc. Range:	No limitation																																																																																																
8. Temperature:	10 - 50°C																																																																																																

DS1205 Revised 21DECEMBER2009

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Zettaching 6
D-70567 Stuttgart
Germany
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9. Cleaning Solvents:	(1) Sample property: hydrophobic compounds Water soluble organic solvents such as 70-100% acetonitrile and methanol in aqueous buffer (2) Sample property: basic compounds Acidic solutions containing water soluble organic solvents acetonitrile and methanol																																																																																																																																																
10. Storage:	Store the column in the shipping solvent if it will not be used within three days. Prevent air from entering the column. For overnight storage flush the column with mobile phase at 0.2mL/min.																																																																																																																																																
11. Column Protection:	An on-line filter (0.2-0.5µm) equipped between pump and injection valve is recommended. Guard cartridges prevent the column from a contamination of strongly adsorbed solutes.																																																																																																																																																
B. SPECIFICATIONS																																																																																																																																																	
The performance of TSK-GEL ODS-100Z columns are tested under the conditions described in the data sheet. All columns have passed the following quality control specifications:																																																																																																																																																	
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