



Specification

D-Ribose JP

Catalog Number: RB1003
CAS Number: 50-69-1
Molecular Formula: C₅H₁₀O₅
Molecular Weight: 150.13
Storage Temperature: 2°C – 8°C
Retest Period: Two years from the date of manufacture

Test	Specification
Appearance*	White to slight yellow powder
Assay (Dry Basis)**	97.0 – 102.0%
Identification (FTIR)	To match reference spectrum
Specific Rotation (c=10, 0.4% NH ₃)**	-20.8° to -20.0°
Melting Point	85°C – 92°C
Moisture (LOD)*	≤ 0.5%
Residue on Ignition**	≤ 0.20%
Heavy Metals**	≤ 10ppm
Arsenic**	≤ 1ppm
Cadmium	≤ 0.3ppm
Iron**	ND
Lead	≤ 0.2ppm
Mercury	≤ 0.1 ppm
Solubility (0.1 g/mL)	Clear, colorless to light yellow
Bulk Density	0.5 – 0.9 g/mL
Mesh	30 - 100 mesh
Total Plate Count	≤ 1,000 cfu/g
Yeast & Mold	≤ 100 cfu/g
Coliforms	≤ 100 cfu/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Staph. aureus</i>	Negative

*Required specifications

**Manufacturer's specifications differing from LifeTechnologies

Approved:

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