



Certificate of Analysis

Product name	Mannitol	CAS No.:	69-65-8
Package:	20kg/bag	Quantity:	2000kg
MFG Date:	2025/02/06	EXP Date:	2028/02/04
Batch No.:	MPF25020602	Standard	USP/EP/BP

Items	Standards	Results
Appearance	White crystalline powder or as free-flowing granules	Conform
Identification	Be consistent with the refer	Conform
Clarity & Color	Clear and colorless	Conform
Loss on drying	$\leq 0.3\%$	0.03%
pH (100g/L)	4.0-7.5	5.5
Reducing sugars	≤ 0.10 g/100g	< 0.10 g/100g
Ignition residue	$\leq 0.1\%$	0.02%
Conductivity	$\leq 20\mu\text{S/cm}$	1.3 $\mu\text{S/cm}$
Sorbitol	$\leq 2.0\%$	0.047%
Maltitol and isomalt	$\leq 2.0\%$	0.022%
Unspecified impurities	$\leq 0.1\%$	0.069%
Total impurities	$\leq 2.0\%$	0.14%
Melting point	165-170°C	166.5-167.5°C
Acid degree	$\leq 0.2\text{ml}$	$< 0.2\text{ml}$
Specific Rotation	+137° -+145°	+142°
Chloride	$\leq 0.005\%$	$< 0.005\%$
Sulphate	$\leq 0.01\%$	$< 0.01\%$
Lead	≤ 1.0 mg/kg	< 1.0 mg/kg
Nickel	≤ 1.0 mg/kg	$< 1.0\text{mg/kg}$
Arsenic	≤ 1.0 mg/kg	$< 1.0\text{mg/kg}$
Mercury	≤ 0.1 mg/kg	$< 0.1\text{mg/kg}$
Cadmium	≤ 0.5 mg/kg	$< 0.5\text{mg/kg}$
Total aerobic bacteria	≤ 1000 CFU/g	< 10 CFU/g
Molds and yeasts	≤ 100 CFU/g	< 10 CFU/g
Escherichia coli	Negative	Not detected
Salmonella	Negative	Not detected
Staphylococcus aureus	Negative	Not detected
Endotoxins	< 2.5 EU/g	< 2.5 EU/g
Assay	97.0-102.0%	99.9%

