

### Certificate of Analysis

**Product:** Mannitol, Powder  
**Item Number:** MANPU  
**Grade:** USP  
**Lot Number:** 5001512/1.1  
**Manufacture Date:** 08/30/2024  
**Expiration Date:** 08/29/2027  
**Country of Origin:** China

Tested Property	Specification	Analysis
Appearance	White or almost white powder or crystal	White Crystal
Identification by IR	Conforms to spectra	Conforms
Assay	97.0 - 102.0%	99.7%
Sorbitol	Max 2.0%	0.3%
Sum of Maltitol & Isomalt	Max 2.0%	Not detected
Total Impurities	Max 2.0%	0.3%
Reducing sugars	Max 0.1%	<0.1%
Nickel	<0.1µg/g	<1µg/g
Melting point	165 - 170°C	166 - 168°C
Appearance of solution	Clear and Colorless	Pass
Loss on drying	Max 0.5%	0.1%
Conductivity	Max 20 µS/cm	2.0 µS/cm
Microbial Contamination, TAMC	Max 1000 CFU/g	<20 CFU/g
Microbial Contamination, TYMC	Max 100 CFU/g	<20 CFU
Absence of Escherichia Coli	Negative	Negative
Absence of Salmonella	Negative	Negative
Residual Solvents, USP <467>	None	Conforms
Unspecified Impurities	Max 0.10%	Not Detected
SOR	+23~+25	+23.9
TLC	Conformity	Conformity

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### [Mannitol, Powder](#)

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