

### Certificate of Analysis

**Product: Mannitol, Powder**  
**Item Number: MANPU**  
**Grade: USP**  
**Lot Number: 5000823/1.1**  
**Manufacture Date: 11/01/2023**  
**Expiration Date: 10/31/2025**  
**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%	99.9%
Sorbitol	Max 2.0%	0.2%
Sum of Maltitol & Isomalt	Max 2.0%	Not detected
Total Impurities	Max 2.0%	0.2%
Reducing sugars	Max 0.1%	<0.1%
Nickel	<0.1 $\hat{1}$ $\frac{1}{4}$ g/g	<1 $\hat{1}$ $\frac{1}{4}$ g/g
Melting point	165 - 168°C	Pass
Appearance of solution	Clear and Colorless	Pass
Loss on drying	Max 0.5%	0.1%
Conductivity	Max 20 $\hat{1}$ $\frac{1}{4}$ S/cm	2.8 $\hat{1}$ $\frac{1}{4}$ S/cm
Microbial Contamination, TAMC	Max 1000 CFU/g	<10 CFU/g
Microbial Contamination, TYMC	Max 100 CFU/g	10 CFU
Absence of Escherichia Coli	Negative	Negative
Bacterial Endotoxins	Max 2.5 IU/g	<2.5
Residual Solvents, USP <467>	None	Conforms

#### [Mannitol, Powder](#)

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory

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