LAB ALLEY
ESSENTIAL CHEMICALS

## Certificate of Analysis

**Product: Mannitol, Powder**
**Item Number: MANPU**
**Grade: USP**
**Lot Number: 5001633/1.1**
**Manufacture Date: 05/19/2025**
**Expiration Date: 05/18/2027**
**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% | 99.8% |
| 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 | ≤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 | 3.1 µS/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 |
| Unspecified impurities | ≤0.10% | None detected |

Mannitol, Powder

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