



**ChemPure[®]
Chemicals**

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Certificate of Analysis

Item Number	Product Description	Lot Number
CPB-M22080-3KG	CHEMPURE D-Mannitol, 3 KG	105055-127619
Formula	Molecular Weight	Cas Number
C ₆ H ₁₄ O ₆	182.2	69-65-8

QC TEST/RELEASE DATE: 02/19/2020

SUGGESTED RETEST DATE: 12/20/2021

S.No	Test	Unit	Specifications	Test Value
1	Appearance		White crystalline powder	passed
2	Appearance of Solution		Clear and colorless solution	Clear and colorless solution
3	Melting Point	°C	165.0 - 170.0	166 - 168
4	Nickel (Ni)	ppm	≤ 1	<1
5	Conductivity	μS/cm	≤ 20	1.6
6	Total Yeast and Mold Count (TYMC)	cfu/g	≤ 100	<10
7	Identification (IR)		Conforms	passed
8	Reducing Sugar	%	≤ 0.1	<0.1
9	Loss on Drying	%	≤ 0.5	0.1
10	Residual Solvents		Meet requirements	Conforms
11	Bacterial Endotoxins	IU/g	≤ 2.5	<2.5
12	E.Coli		Negative	passed
13	Total Aerobic Microbial Count (TAMC)	cfu/g	≤ 100	10
14	Assay	%	96.0 - 101.5	99.9
15	Related Substance (Maltitol and Isomalt)	%	≤ 2.0	<2.0
16	Related Substance (Sorbitol)	%	≤ 2.0	<2.0
17	Related Substance (Total impurity)	%	≤ 2.0	<2.0
18	Related Substance (Unspecified Impurities)	%	≤ 0.10	<0.10

19	Specific Optical Rotation (EP)	°	+23 - +25	+23.9
20	Specific Optical Rotation (USP)	°	+137 - +145	140.3
21	Non Animal Origin		Conforms	1

This is to certify that samples of the lot number above were tested and found to comply with the stated specifications. Some or all data have been provided by vendors/ third parties. ChemPure Brand Chemicals expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular use or purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in Research and further manufacturing only. **NOT FOR USE IN FOOD, DRUG OR MEDICAL DEVICE MANUFACTURING.** Persons using this information should make their own determination regarding its suitability for their particular use.

This is an electronically generated document and does not require signatures.

Certified By: Imran Memon

Q.C.Manager

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