



CERTIFICATE OF ANALYSIS

PRODUCT NAME : D(-)MANNITOL LR

CAS No : 69- 65- 8
Mol. Formula : $C_6H_{14}O_6$
Mol. WT : 182.17
Date of analysis : 15/12/19

Product code : 15640
Batch No : MCR-20343
Mfd. : Dec. 2019
Exp. : Nov. 2024

S. R	Test	Specification	Observation
1	Description	White powder or crystalline powder	White crystalline powder
2	Assay	99.5% min	99.54%
3	Melting point	166-169°C	167.2°C
4	Specific rotation $[\alpha]^{20}_D$ (C=8, In aqueous solution 10.4% Disodium Tetra borate)	+23° to +24°	+23.75°
5	Loss on drying at 110°C	0.1% max	0.08%
6	Sulphated ash	0.05% max	0.034%
7	Reducing sugars (ml)	16 max	<16
8	Pyrogen	Free	Free
9	Alkalinity (ml)	0.3 max	<0.3
10	Acidity (ml)	0.2 max	<0.2
11	Chloride	0.005%max	<0.005%
12	Sulphate	0.01%max	<0.01%
13	Sorbitol	Negative	Negative
14	Nickel(mg/kg)	0.2 max	<0.2

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

**HEAD-QUALITY ASSUARANCE
(G.G.Salian)**

Note: Computer generated image requires no sign.

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