

Certificate of Analysis

Reference Material & Standard

Product Name:	D-mannitol	Catalogue Number:	CCFD200109
Synonyms:	N/A	Lot Number:	0703-RE-0027
CAS Number:	69-65-8	Expiry Date:	Jul 04, 2027
Molecular Formula:	C ₆ H ₁₄ O ₆	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	182.17		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	2.4389%
Assay		97.6%
Uncertainty		±2.0%

Comment:

CATO Research Chemicals Inc.

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity ELSD (\%)} / 100\%$

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 05, 2023

Date: Jul 05, 2023

Date: Jul 05, 2023



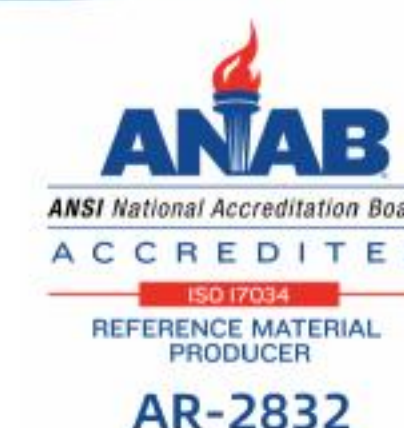
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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