

Certificate of Analysis

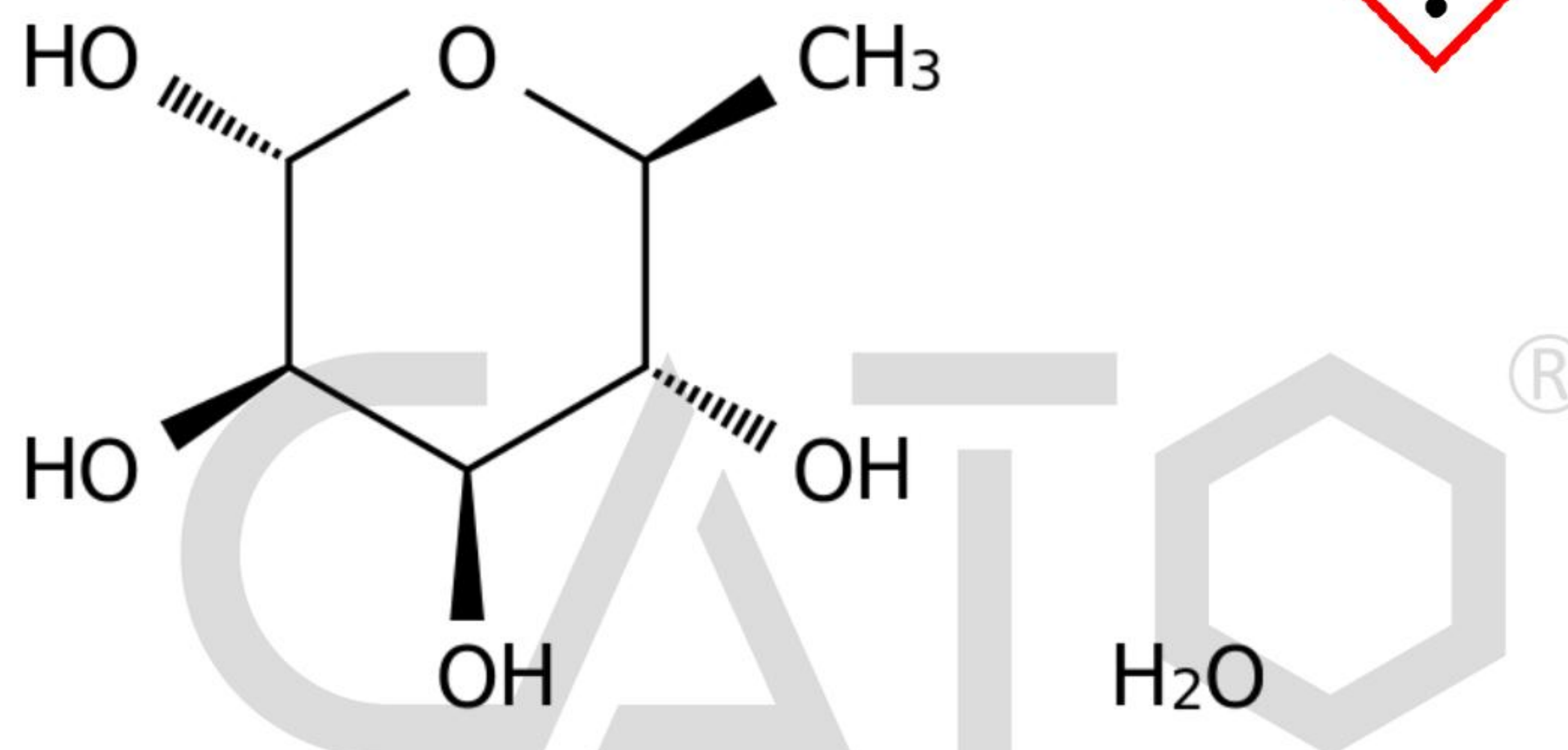
Reference Material & Standard

Product Name:	alpha-L-Rhamnose Monohydrate	Catalogue Number:	CCFD200756
Synonyms:	N/A	Lot Number:	0720-RD-0052
CAS Number:	6155-35-7	Expiry Date:	Nov 18, 2029
Molecular Formula:	C ₆ H ₁₂ O ₅ · H ₂ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	164.16 18.02	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	ELSD	98.955%
Water Content	Karl Fischer	10.3769%
Water Content(Free Water)		0.4879%
Assay		98.5%
Uncertainty		±0.3%

Comment:

- The content of crystal water is 9.8890%
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content(Free Water)}) * \text{Purity ELSD (\%)} / 100\%$$
 Water Content(Free Water) is considered as absolute effect, ELSD purity is considered as relative effect.
- 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: Aug 10, 2026

Date: Aug 10, 2026

Date: Aug 10, 2026



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>

