

Certificate of Analysis

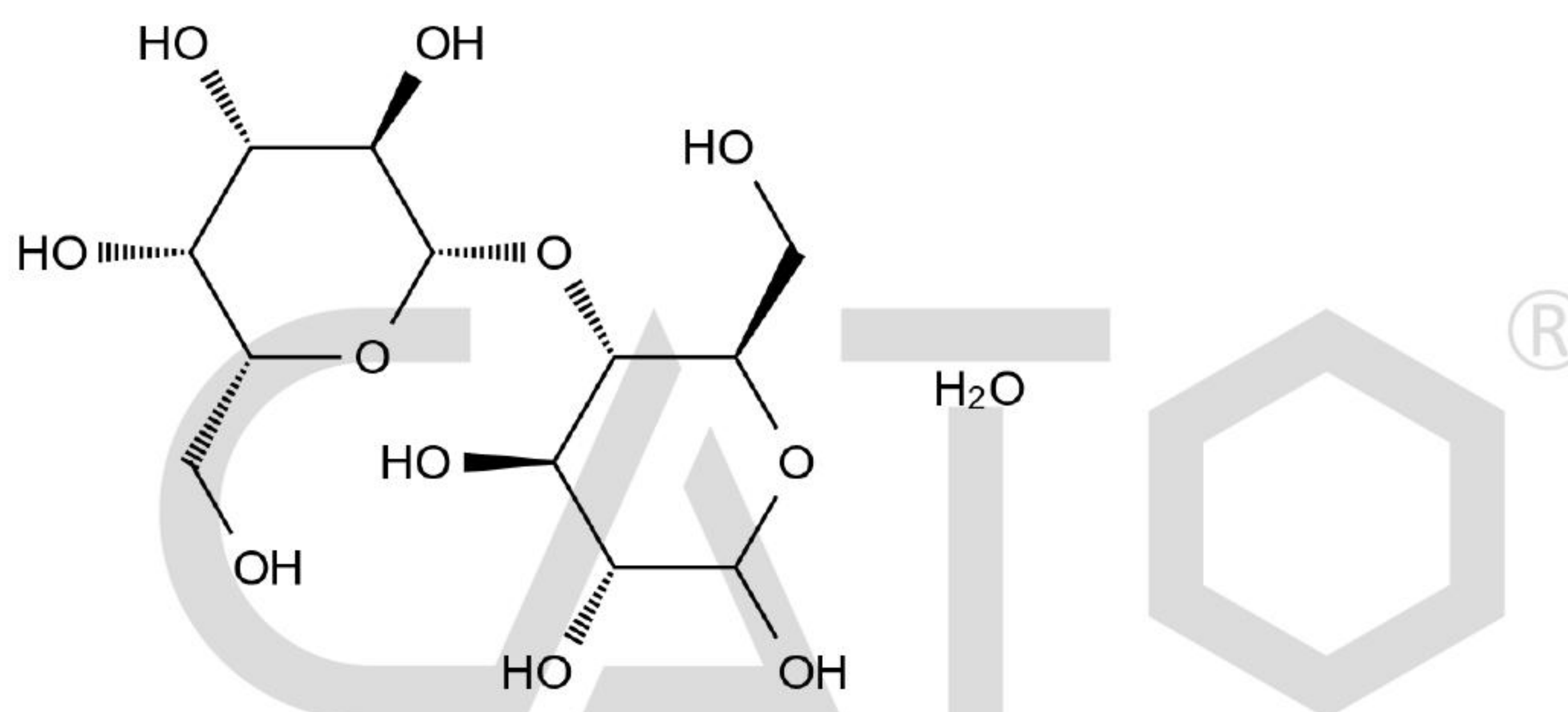
Reference Material & Standard

Product Name:	Lactose Monohydrate	Catalogue Number:	C1003708
Synonyms:	N/A	Lot Number:	0115-RG-0009
CAS Number:	10039-26-6	Expiry Date:	Oct 26, 2029
Molecular Formula:	C ₁₂ H ₂₂ O ₁₁ · H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	342.30 18.02	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss On Drying	TGA	5.0304%
Loss On Drying(Free Water)		0.0293%
Assay		100.0%

Comment:

- The content of crystal water is 5.0011%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying(Free Water)}) * \text{Purity ELSD (\%)} / 100\%$$
 Loss On Drying(Free Water) is considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Oct 27, 2025

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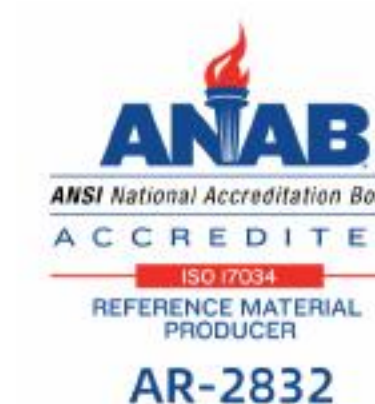
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