

Certificate of Analysis

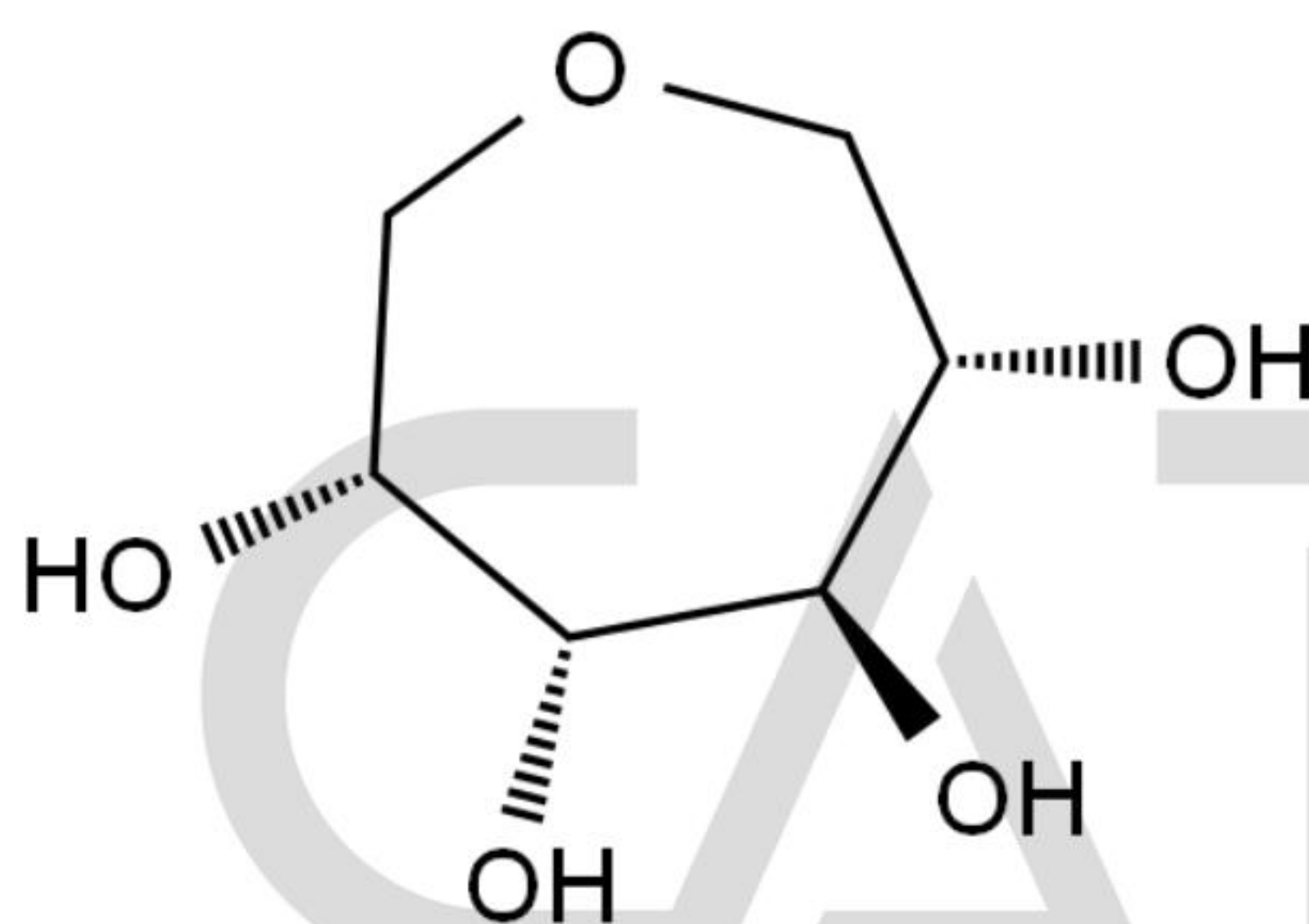
Reference Material & Standard

Product Name:	Isosorbide Impurity 23	Catalogue Number:	C4X-223823
Synonyms:	N/A	Lot Number:	0828-RE-0017
CAS Number:	45895-44-1	Expiry Date:	Aug 20, 2026
Molecular Formula:	C ₆ H ₁₂ O ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	164.16	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	ELSD	99.9536%
Water Content	Karl Fischer	1.10%
Residual Solvents	NMR	0.4% methanol and 0.4% isopropanol
Specific Rotation		[α] _D 20.0(c=0.56,H ₂ O): -24.8°
Assay		98.1%

Comment:

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

Assay (%) = (100%-Water Content-Residual Solvents) * Purity ELSD (%) /100%

Water Content and Residual Solvents are considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 29, 2023

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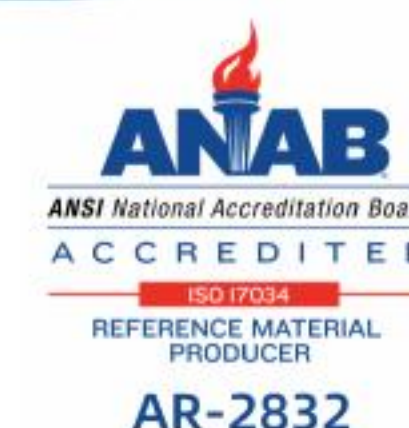
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