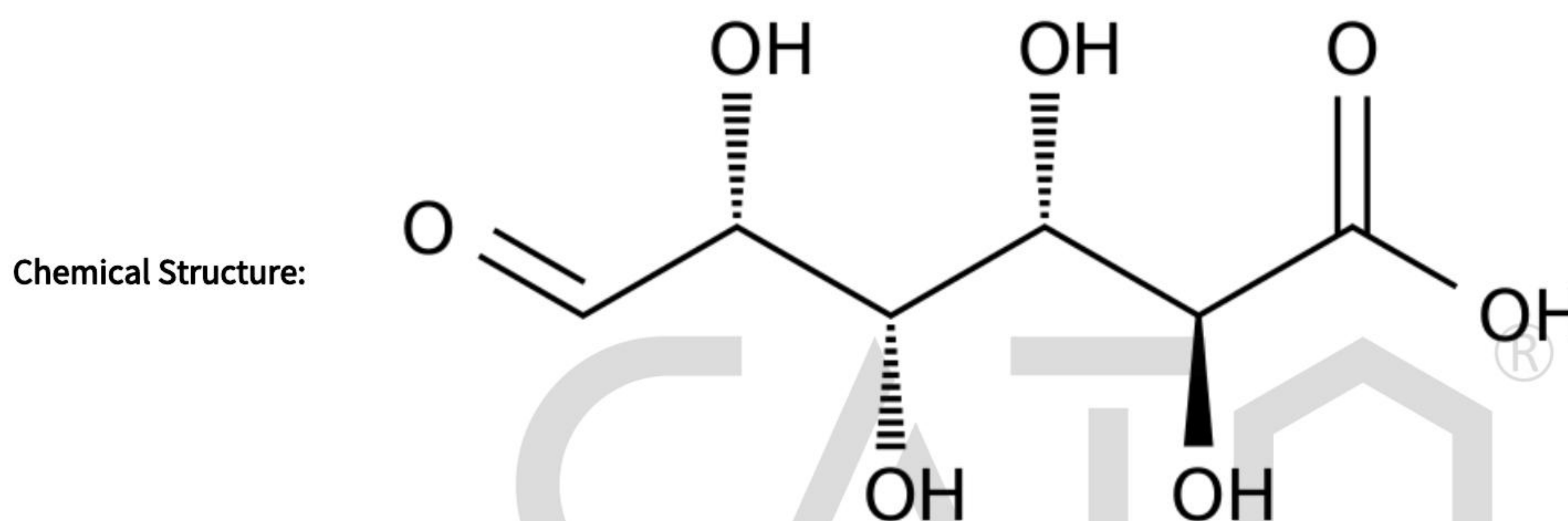


Certificate of Analysis

Reference Material & Standard

Product Name:	Glucuronic Acid	Catalogue Number:	CCHM703625
Synonyms:	N/A	Lot Number:	1105-RF-0032
CAS Number:	576-37-4	Expiry Date:	Nov 10, 2028
Molecular Formula:	C ₆ H ₁₀ O ₇	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	194.14		



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.9137%
Loss On Drying	TGA	10.6779%
Assay		89.2%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$

Loss On Drying 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:

Hinlam

Approved by General Manager:

David

Date: Nov 11, 2024

Date: Nov 12, 2024

Date: Nov 12, 2024

