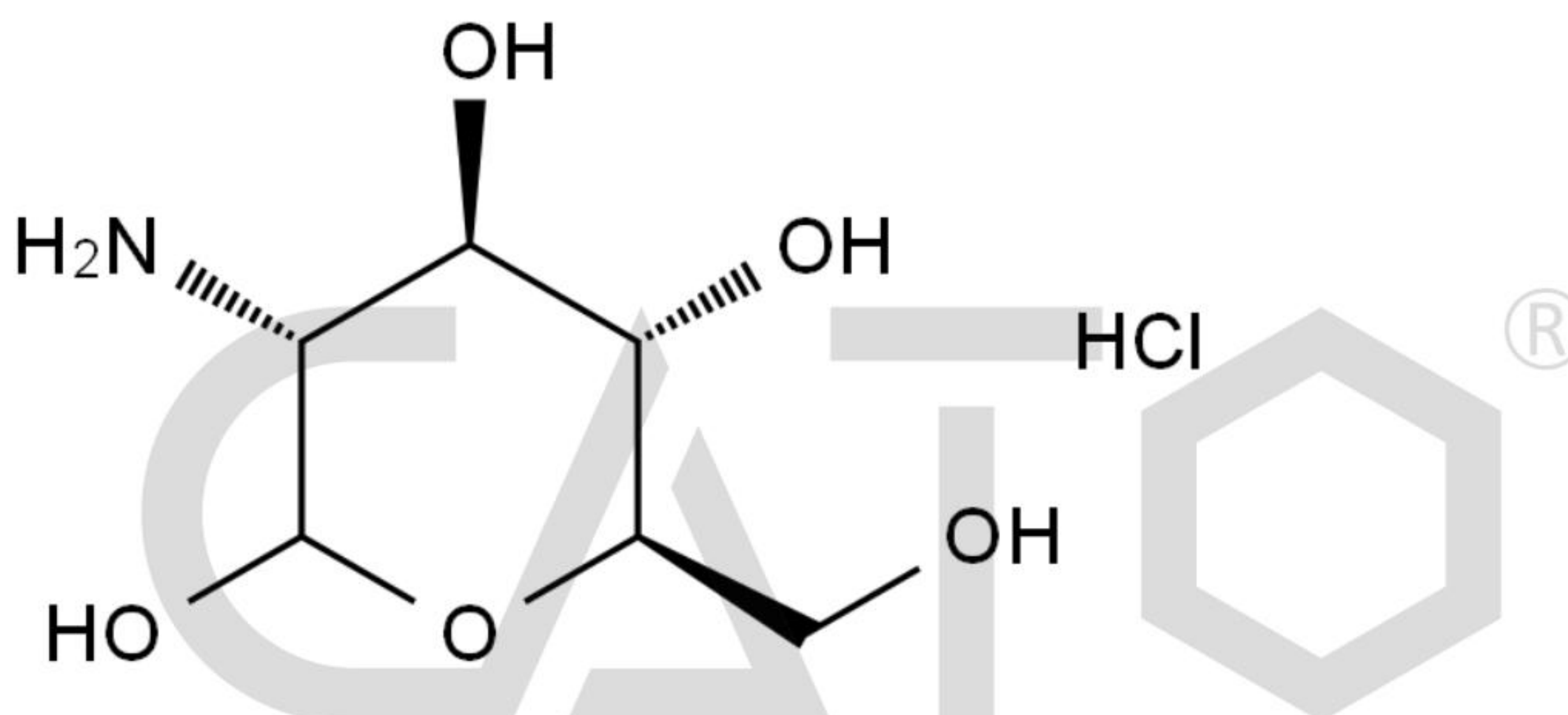


Certificate of Analysis

Reference Material & Standard

Product Name:	D-Glucosamine Hydrochloride	Catalogue Number:	CCFD200326
Synonyms:	N/A	Lot Number:	0609-RH-0003
CAS Number:	66-84-2	Expiry Date:	Jun 07, 2030
Molecular Formula:	C ₆ H ₁₃ NO ₅ HCl	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	179.17 36.46	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss on Drying	TGA	0.3286%
Assay		99.7%
Uncertainty		±0.2%

Comment:

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

$Assay (\%) = (100\% - Loss\ on\ Drying) * Purity\ ELSD (\%) / 100\%$

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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jun 09, 2026

Date: Jun 09, 2026

Date: Jun 09, 2026



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