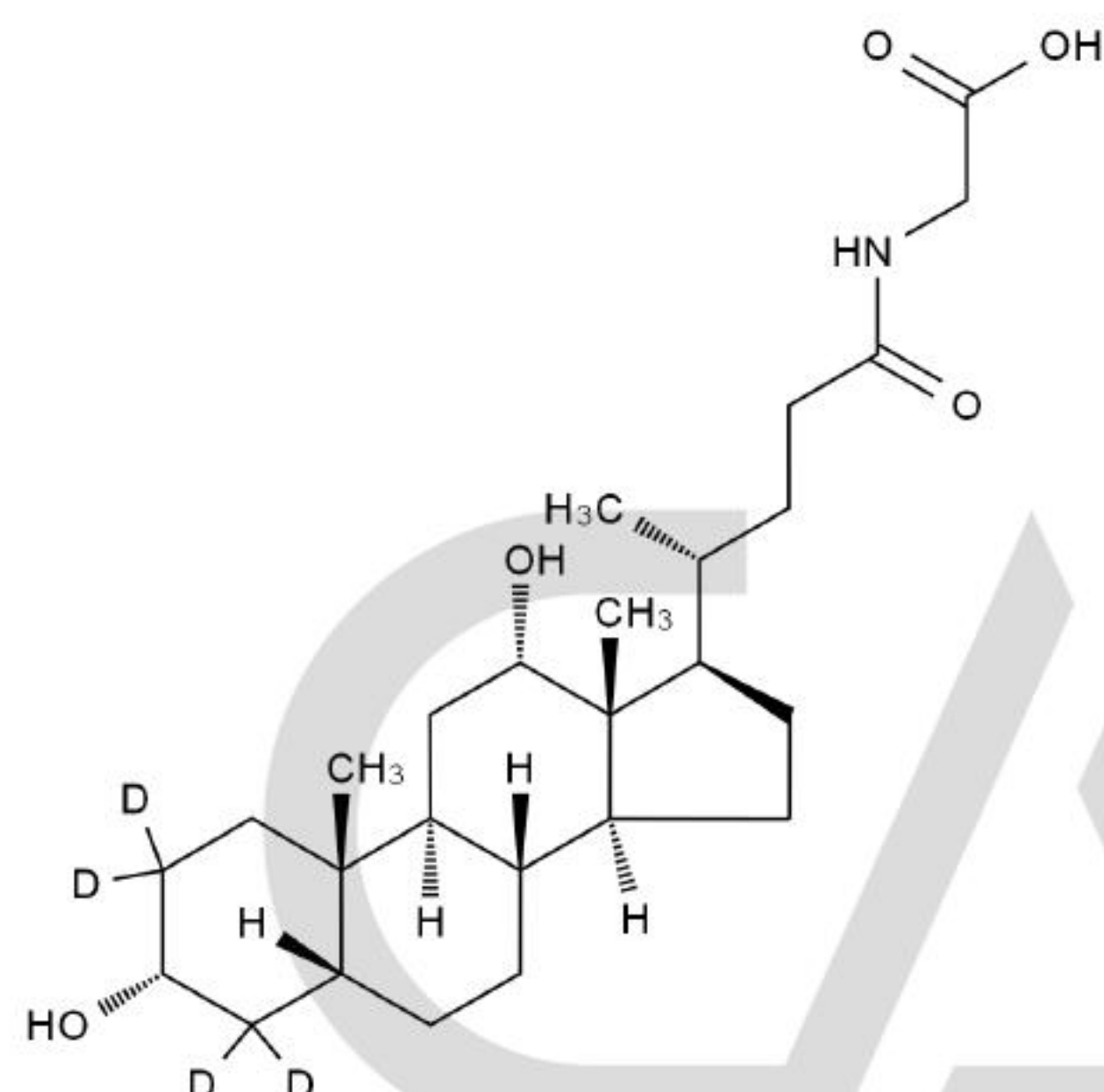


Certificate of Analysis

Reference Material & Standard

Product Name:	Glycodeoxycholic-2,2,4,4-d4 Acid	Catalogue Number:	CCAD301968
Synonyms:	N/A	Lot Number:	1205-RG-0085
CAS Number:	1069132-37-1	Expiry Date:	Jul 25, 2027
Molecular Formula:	C ₂₆ H ₃₉ D ₄ NO ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	453.65	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	NMR	99.0%
Isotopic Purity		98.98%, D4: 95.94%, D3: 4.06%
Uncertainty		±2.0%

Comment:

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: Dec 25, 2025

Date: Dec 25, 2025

Date: Dec 25, 2025



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