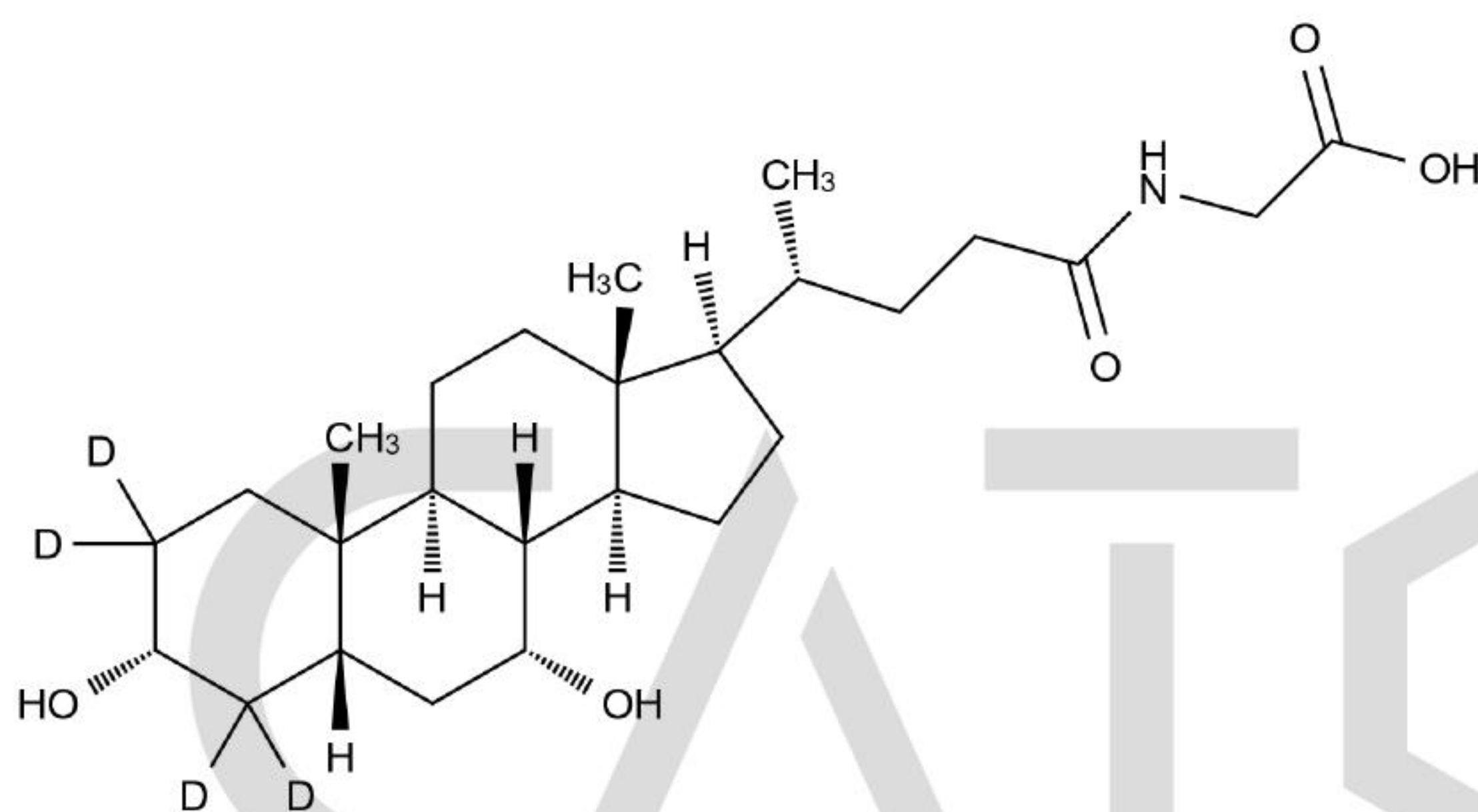


Certificate of Analysis

Reference Material & Standard

Product Name:	Glycochenodeoxycholic-2,2,4,4-d4 Acid	Catalogue Number:	CCAD301974
Synonyms:	N/A	Lot Number:	1205-RG-0083
CAS Number:	1201918-16-2	Expiry Date:	Jul 01, 2030
Molecular Formula:	C ₂₆ H ₃₉ D ₄ NO ₅	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	453.65	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	ELSD	100.0%
Isotopic Purity		98.54%(D4: 94.15%, D3: 5.85%)
Uncertainty		±0.1%

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:

Hin Lam

Approved by General Manager:

David

Date: Aug 10, 2026

Date: Aug 11, 2026

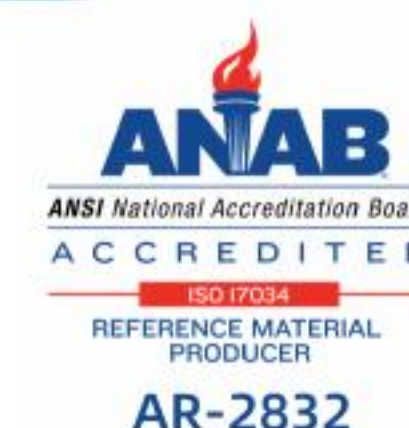
Date: Aug 11, 2026

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