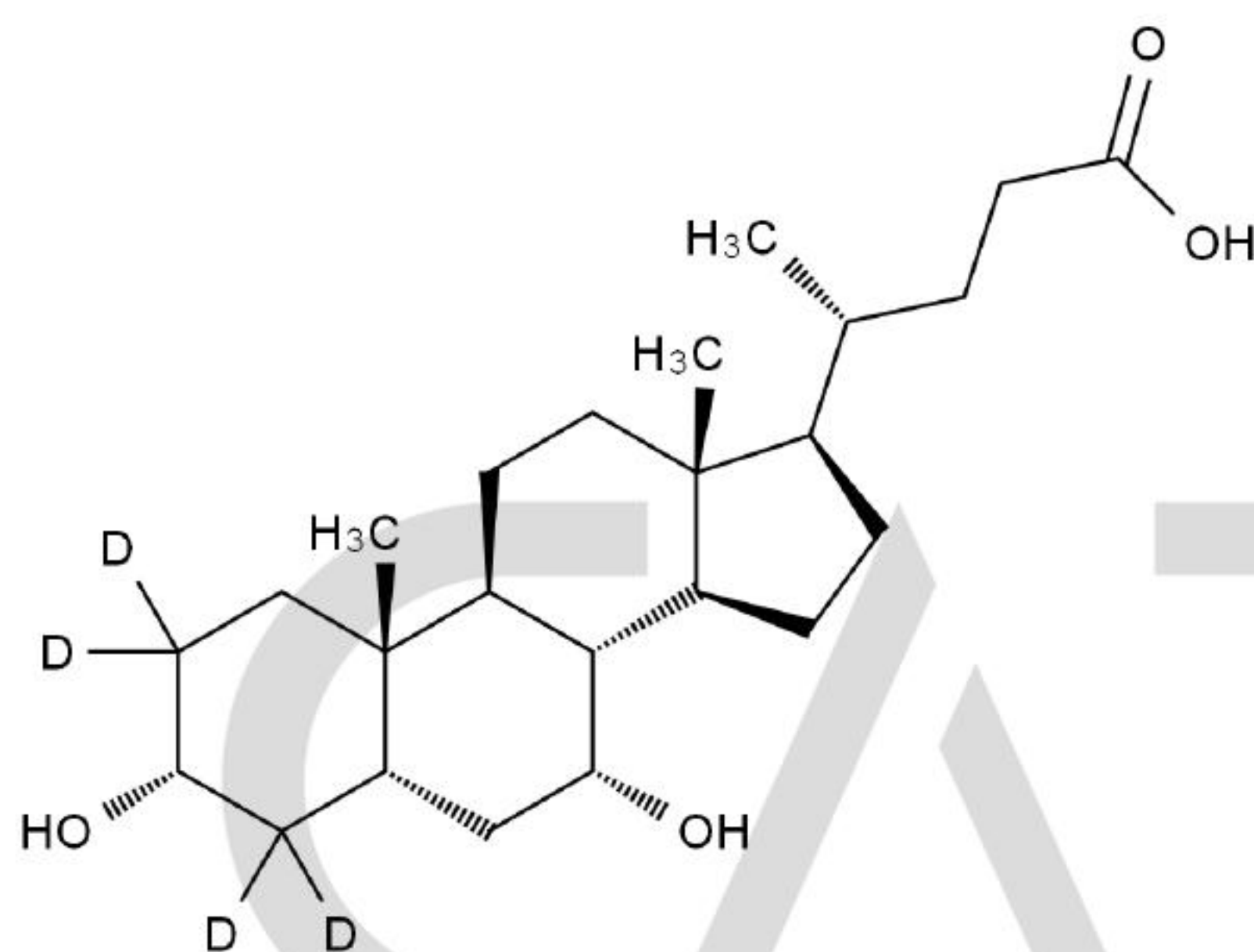


Certificate of Analysis

Reference Material & Standard

Product Name:	Chenodeoxycholic-2,2,4,4-d4 Acid	Catalogue Number:	CCFD200900
Synonyms:	N/A	Lot Number:	1205-RG-0081
CAS Number:	99102-69-9	Expiry Date:	Aug 24, 2028
Molecular Formula:	C ₂₄ H ₃₆ D ₄ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	396.60	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	NMR	98.0%
Isotopic Purity		98.00%, D4: 92.00%, D3: 7.63%, D2: 0.37%
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:

Yuki

Approved by General Manager:

David

Date: Dec 22, 2025

Date: Dec 23, 2025

Date: Dec 23, 2025



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