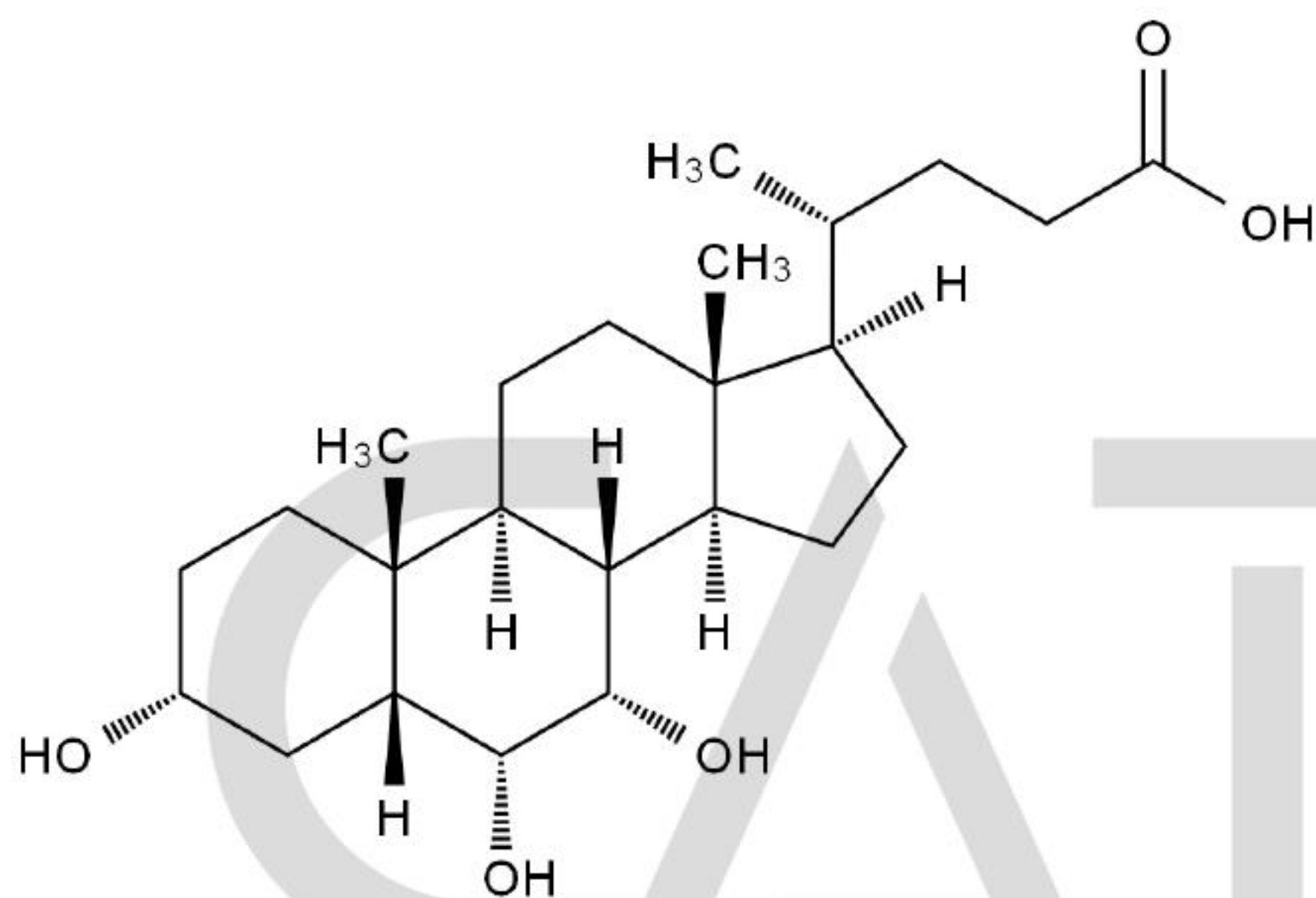


Certificate of Analysis

Reference Material & Standard

Product Name:	Hyocholic Acid	Catalogue Number:	CCAD303456
Synonyms:	N/A	Lot Number:	0506-RF-0031
CAS Number:	547-75-1	Expiry Date:	May 16, 2028
Molecular Formula:	C ₂₄ H ₄₀ O ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	408.57	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	96.4%
Assay	qNMR	93.6%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
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:

Lisa

Aproved by General Manager:

David

Date: May 17, 2024

Date: May 17, 2024

Date: May 17, 2024

