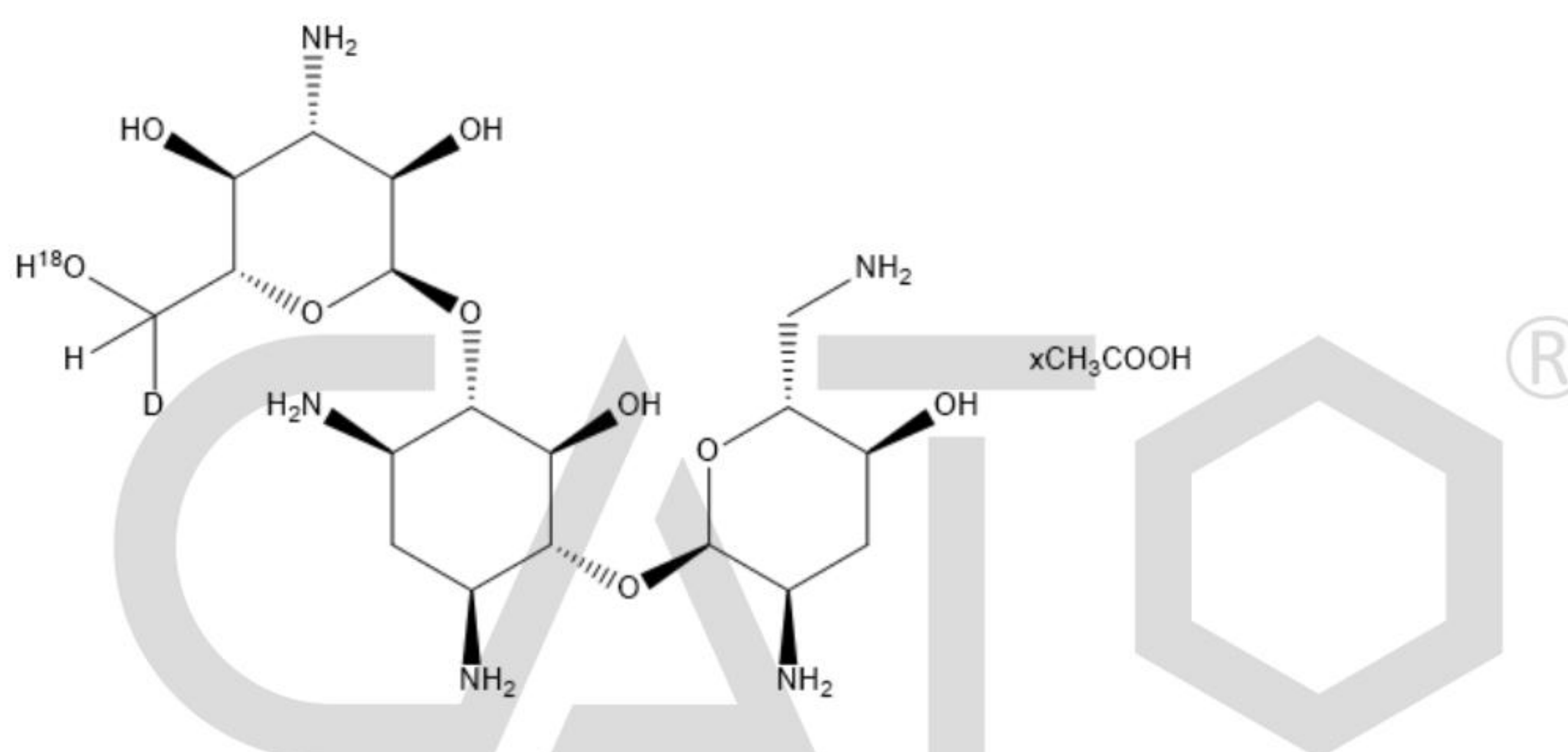


Certificate of Analysis

Reference Material & Standard

Product Name:	Tobramycin-D, 18O Acetic Acid Salt	Catalogue Number:	CCAD302249
Synonyms:	N/A	Lot Number:	0806-RH-0054
CAS Number:	N/A	Expiry Date:	Jul 02, 2030
Molecular Formula:	$C_{18}H_{36}DN_5O_8[18O] \times C_2H_4O_2$	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	470.52 x60.05	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Pale Brown Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	ELSD	99.3%
Isotopic Purity		97.2%
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 07, 2026

Date: Aug 07, 2026

Date: Aug 07, 2026

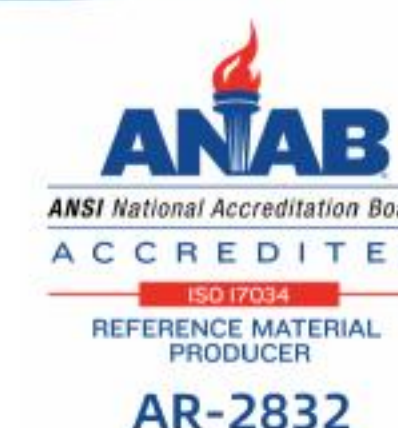
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