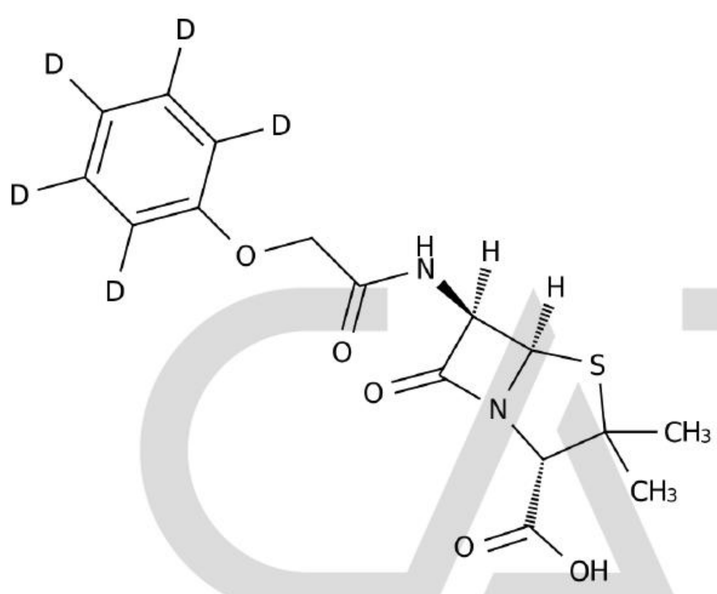
Certificate of Analysis

Reference Material & Standard

Product Name:	Penicillin V-d5	**Catalogue Number:**	CCAD301386
Synonyms:	N/A	**Lot Number:**	0108-RG-0018
CAS Number:	1356837-87-0	**Expiry Date:**	Apr 18, 2027
Molecular Formula:	C16H13D5N2O5S	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	355.42	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	96.7%
Isotopic Purity		98.3%
Uncertainty		±2.0%

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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: Lily Date: Jan 10, 2025

Reviewed by: Lisa Date: Jan 10, 2025

Approved by General Manager: David Date: Jan 10, 2025

CATO Research Chemicals Inc.