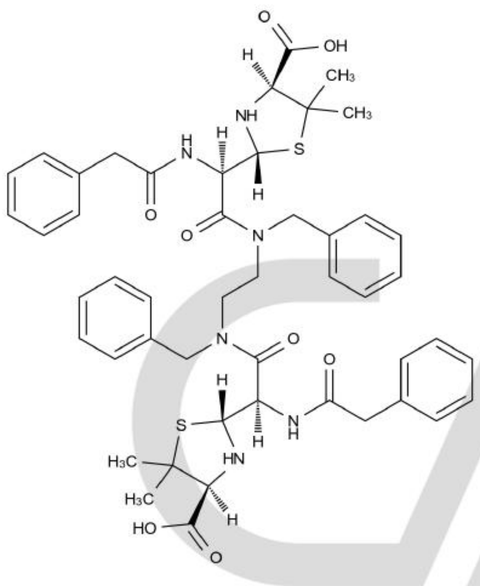
Certificate of Analysis

Reference Material & Standard

Product Name:	Penicillin Impurity 44	**Catalogue Number:**	C4X-189944
Synonyms:	N/A	**Lot Number:**	1028-RH-0072
CAS Number:	N/A	**Expiry Date:**	Mar 03, 2029
Molecular Formula:	$C_{48}H_{56}N_6O_8S_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	909.12	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	95.3%
Assay	qNMR	91.5%

CATO Research Chemicals Inc.

Signature:

Prepared by: Date: Nov 03, 2026

Reviewed by: Date: Nov 03, 2026

Approved by General Manager: Date: Nov 03, 2026

CATO Research Chemicals Inc.