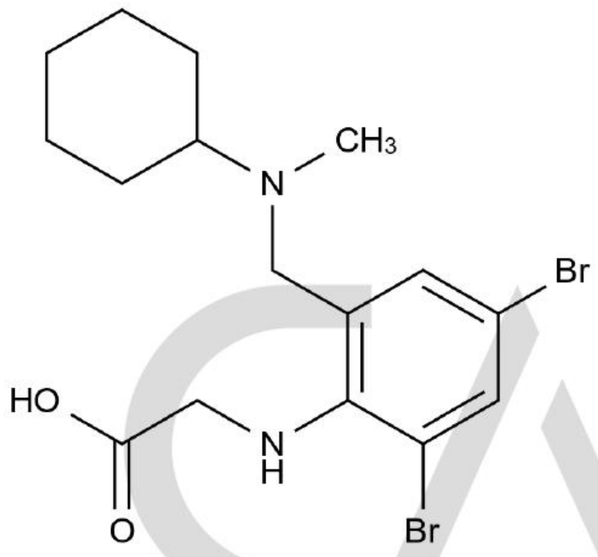
Certificate of Analysis

Reference Material & Standard

Product Name:	Bromhexine Impurity 47	**Catalogue Number:**	C4X-106047
Synonyms:	N/A	**Lot Number:**	1108-RH-0028
CAS Number:	N/A	**Expiry Date:**	Aug 08, 2029
Molecular Formula:	$C_{16}H_{22}Br_2N_2O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	434.17	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.576%
Loss on Drying	TGA	0.4922%
Assay	Mass Balance	98.1%

CATO Research Chemicals Inc.

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Date: Nov 11, 2026

Reviewed by: Date: Nov 11, 2026

Approved by General Manager: Date: Nov 11, 2026

CATO Research Chemicals Inc.