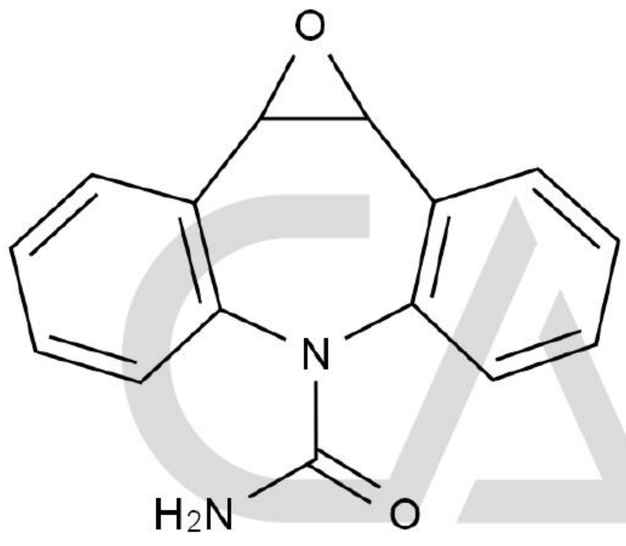
Certificate of Analysis

Reference Material & Standard

Product Name:	Carbamazepine 10,11-Epoxide	**Catalogue Number:**	CCAD303331
Synonyms:	N/A	**Lot Number:**	1106-RG-0043
CAS Number:	36507-30-9	**Expiry Date:**	Nov 09, 2029
Molecular Formula:	$C_{15}H_{12}N_2O_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	252.27	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.294%
Loss On Drying	TGA	0.0027%
Assay		99.3%
Uncertainty		±0.2%

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Comment:

1. 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.
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: Alice Date: Nov 10, 2025

Reviewed by: Lisa Date: Nov 10, 2025

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

CATO Research Chemicals Inc.