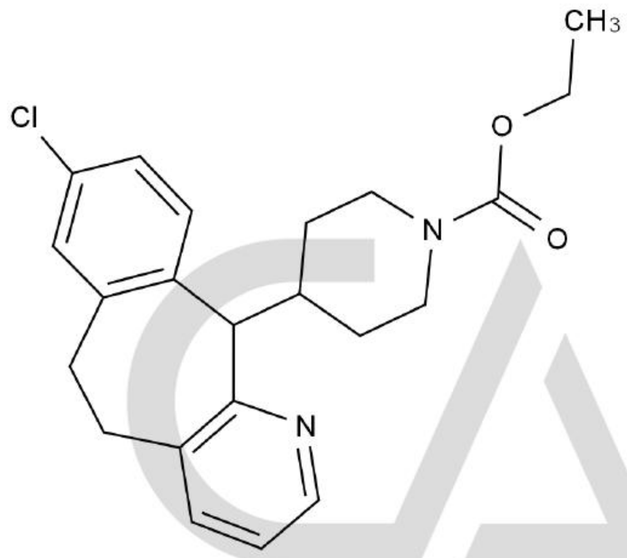
Certificate of Analysis

Reference Material & Standard

Product Name:	Loratadine Impurity 5	**Catalogue Number:**	C4X-14265
Synonyms:	N/A	**Lot Number:**	1101-RH-0107
CAS Number:	167891-69-2	**Expiry Date:**	Nov 22, 2028
Molecular Formula:	$C_{22}H_{25}ClN_2O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	384.90	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	97.410%
Water Content	Karl Fischer	0.42%
Residual Solvents	NMR	0.35% acetonitrile
Assay	Mass Balance	96.7%

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Comment:

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

Signature:

Prepared by: Date: Nov 04, 2026

Reviewed by: Date: Nov 04, 2026

Approved by General Manager: Date: Nov 04, 2026

CATO Research Chemicals Inc.