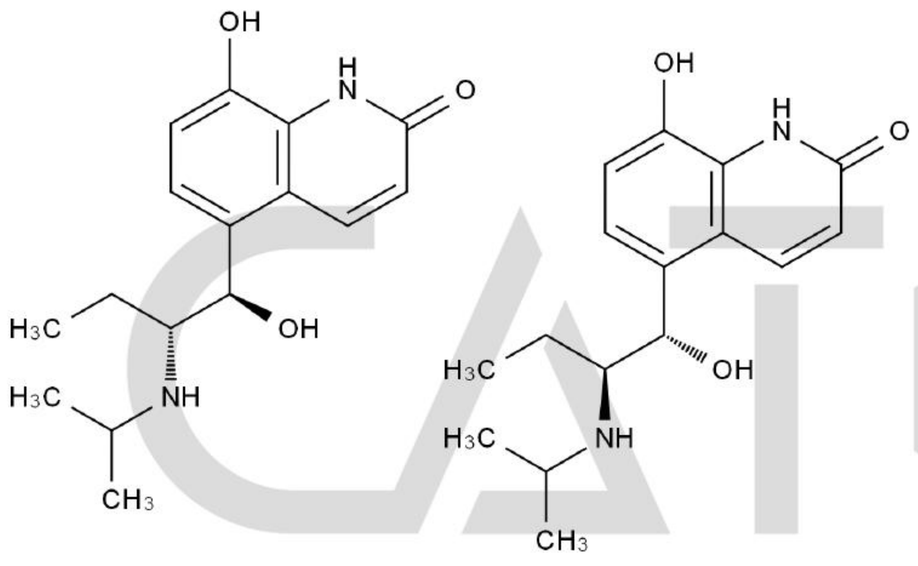
Certificate of Analysis

Reference Material & Standard

Product Name:	Indacaterol Impurity 23(and enantiomer)	**Catalogue Number:**	C4X-150023
Synonyms:	N/A	**Lot Number:**	0929-RH-0019
CAS Number:	94198-40-0	**Expiry Date:**	Sep 29, 2030
Molecular Formula:	$2*C_{16}H_{22}N_2O_3$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	2*290.36	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.966%
Loss on Drying	TGA	1.1628%
Assay	Mass Balance	97.8%

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: Alice Date: Sep 30, 2026

Reviewed by: Koi Date: Sep 30, 2026

Approved by General Manager: David Date: Sep 30, 2026

CATO Research Chemicals Inc.