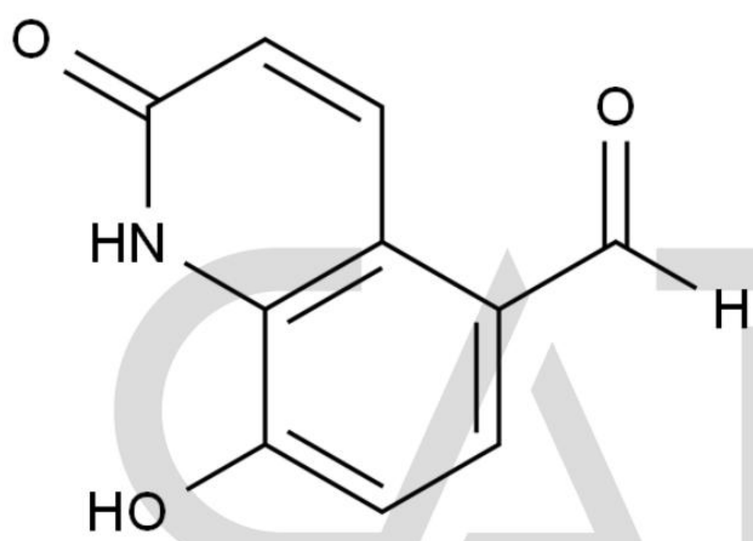
Certificate of Analysis

Reference Material & Standard

Product Name:	Indacaterol Impurity 13	**Catalogue Number:**	C4X-150013
Synonyms:	N/A	**Lot Number:**	0403-RH-0047
CAS Number:	68304-21-2	**Expiry Date:**	Apr 08, 2030
Molecular Formula:	$C_{10}H_7NO_3$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	189.17	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.5524%
Assay	Mass Balance	99.4%

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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: Koji Date: Nov 16, 2026

Reviewed by: Lisa Date: Nov 16, 2026

Approved by General Manager: David Date: Nov 16, 2026

CATO Research Chemicals Inc.