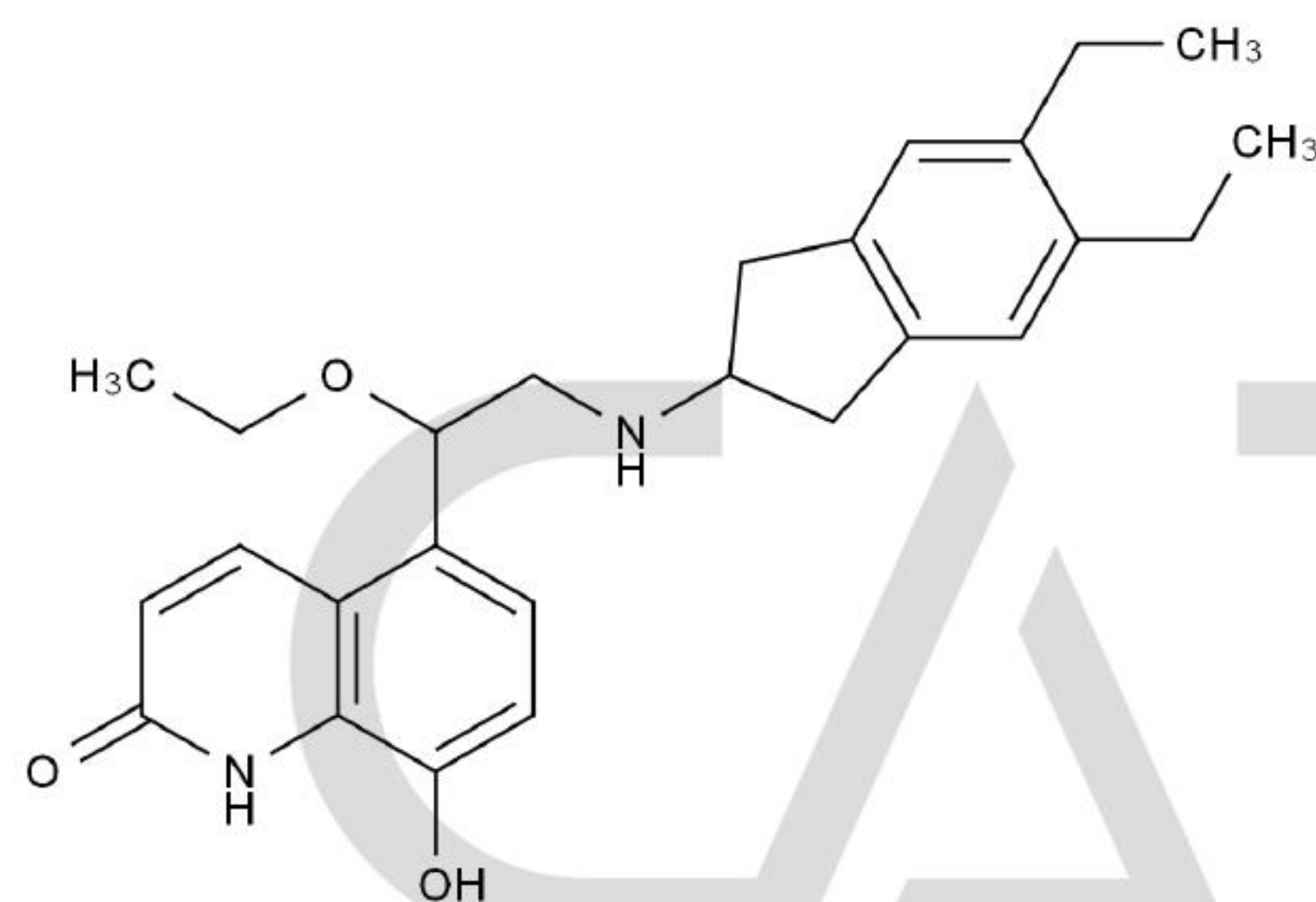


Certificate of Analysis

Reference Material & Standard

Product Name:	Indacaterol Impurity 20	Catalogue Number:	C4X-150020
Synonyms:	5-{2-[(5,6-Diethyl-2,3-dihydro-1H-inden-2-yl)amino]-1-ethoxyethyl}-8-hydroxy-2(1H)-quinolinone	Lot Number:	0812-RH-0038
CAS Number:	2250243-41-3	Expiry Date:	Aug 24, 2030
Molecular Formula:	C ₂₆ H ₃₂ N ₂ O ₃	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	420.54	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Chloroform and DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	95.075%
Residue on Ignition	TGA	0.6555%
Loss on Drying	TGA	1.2094%
Assay	qNMR	93.0%
Assay	Mass Balance	93.3%

Comment:

- The retest date of this product is Aug 24, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Aug 25, 2026

Date: Aug 25, 2026

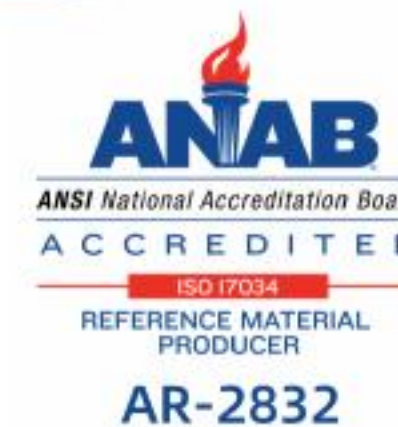
Date: Aug 25, 2026

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