

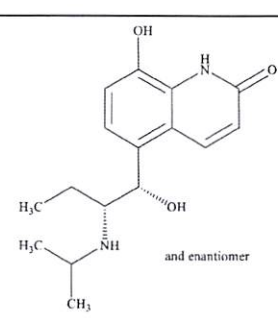
Certificate of Analysis

Certificate No.: **20241129023**

Date: November 29, 2024


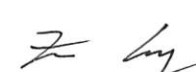
Retest date: November 29, 2027

Compound Name: Procaterol	
Synonyms:	<i>rel</i> -8-hydroxy-5-((1S,2R)-1-hydroxy-2-(isopropylamino)butyl)quinolin-2(1H)-one
TLC Catalogue Number:	P-188003
CAS Number:	72332-33-3
Molecular Weight:	290.36
Molecular Formula:	C ₁₆ H ₂₂ N ₂ O ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3418-038A2
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



and enantiomer

Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	97.4%
Impurity (HPLC)	RT 5.66, 0.70%; RT 8.07, 0.99%; RT 19.84, 0.38%	
Water Content (KF)	N/A	4.3%
Residue (TGA at 900 °C)	N/A	0.4%
Residual Solvents (NMR)	1.5% ethyl acetate	
Assay (%)	Not less than 90.0%	91.4%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		12/02/2024
Approved by:	Quality Assurance		12/02/2024

Attachments: HPLC, IR, MS, NMR and TGA spectra.