

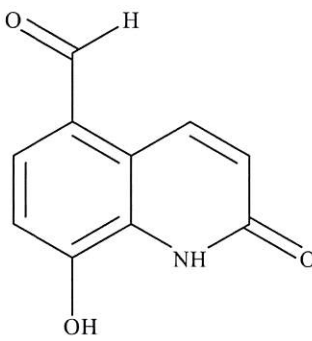
Certificate of Analysis

Certificate No.: **20250827018**



Date: August 27, 2025

Retest date: August 26, 2028

Compound Name: Procatерol Impurity 11	
Synonyms:	8-hydroxy-2-oxo-1,2-dihydroquinoline-5-carbaldehyde
TLC Catalogue Number:	P-188014
CAS Number:	68304-21-2
Alternate CAS Number:	N/A
Molecular Weight:	189.17
Molecular Formula:	C ₁₀ H ₇ NO ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3301-013A1
Storage Conditions:	Store at 2-8 °C
Solubility:	DMF, DMSO



Test Description	Specifications	Results
Visual Description	Off-white 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%	99.9%
Impurity (HPLC)	RT 3.02, 0.15%	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	0.5% dimethylformamide	
Assay (%)	Not less than 90.0%	99.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		08/27/2025
Approved by:	Quality Assurance		08/27/2025

Attachments: Peak Attribution Table, HPLC, IR, MS and NMR spectra.