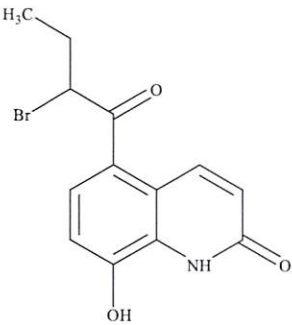


Certificate of Analysis



Certificate No.: **20260119013**

Date: January 19, 2026

Retest date: January 15, 2027

Compound Name: Procaterol Impurity 2		
Synonyms:	5-(2-bromobutanoyl)-8-hydroxyquinolin-2(1H)-one	
TLC Catalogue Number:	P-188005	
CAS Number:	59827-93-9	
Alternate CAS Number:	N/A	
Molecular Weight:	310.15	
Molecular Formula:	C ₁₃ H ₁₂ BrNO ₃	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7201-054A3	
Storage Conditions:	Store at -20 °C	
Solubility:	DMSO, solution of Methanol and Acetonitrile	

Test Description	Specifications	Results
Visual Description	Pale brown 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%	96.6%
Impurity (HPLC)	RT 1.61, 0.63%; RT 4.24, 2.31%; RT 4.50, 0.16%	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	0.1% methanol and 0.1% dichloromethane	
Assay (%)	Not less than 90.0%	96.3%
Recommendation:	Release. The compound contains 2.3% desbromo impurity (RT 4.24) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/19/2026
Approved by:	Quality Assurance		01/19/2026

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