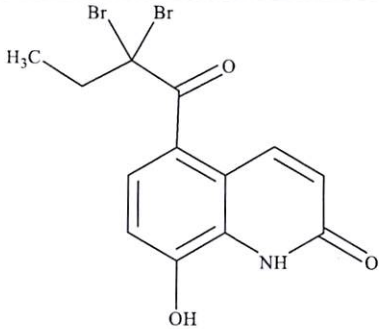


## Certificate of Analysis



Certificate No.: **20260618008**

Date: June 18, 2026

Retest date: June 16, 2027

<b>Compound Name:</b> Procaterol Impurity 7		
<b>Synonyms:</b>	5-(2,2-dibromobutanoyl)-8-hydroxyquinolin-2(1H)-one	
<b>TLC Catalogue Number:</b>	P-188010	
<b>CAS Number:</b>	N/A	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	389.04	
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>11</sub> Br <sub>2</sub> NO <sub>3</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7441-076A2	
<b>Storage Conditions:</b>	Store at -20 °C	
<b>Solubility:</b>	DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	Off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.1%</b>
<b>Impurity (HPLC)</b>	RT 3.00, 0.57%	
<b>Water Content (KF)</b>	N/A	<b>0.2%</b>
<b>Residual Solvents (NMR)</b>	0.1% methanol and 0.1% dichloromethane	
<b>Assay (%)</b>	Not less than 90.0%	<b>98.7%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/18/2026
Approved by:	Quality Assurance		06/18/2026

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