

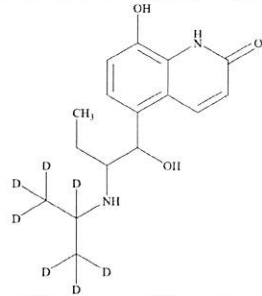
Certificate of Analysis

Certificate No.: **20240104028**



Date: January 4, 2024

Retest date: December 26, 2026

Compound Name: <i>rac</i> -Procaterol-d ₇ (Mixture of Diastereomers)	
Synonyms:	8-hydroxy-5-(1-hydroxy-2-((propan-2-yl-d ₇)amino)butyl)quinolin-2(1 <i>H</i>)-one
TLC Catalogue Number:	P-188030
CAS Number:	N/A
Molecular Weight:	297.41
Molecular Formula:	C ₁₆ H ₁₅ D ₇ N ₂ O ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	5901-087A15
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Ethanol



Test Description	Specifications	Results
Visual Description	Pale 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%	98.7%
Impurity (HPLC)	RT 3.25, 0.44%; RT 13.56, 0.24%	
Isotopic Enrichment	Not less than 98.0%	99.0%
Residual Solvents (NMR)	0.1% acetonitrile	
Assay (qNMR)	Not less than 90.0%	93.0%
Recommendation:	Release. This compound contains 90.7% Procaterol-d ₇ (RT 8.19, TLC No. P-188026) and 8.0% Procaterol Related Compound 1-d ₇ (RT 10.12, TLC No. P-188031) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01 109 2024
Approved by:	Quality Assurance		01 109 2024

Attachments: HPLC, IR, MS and NMR spectra.