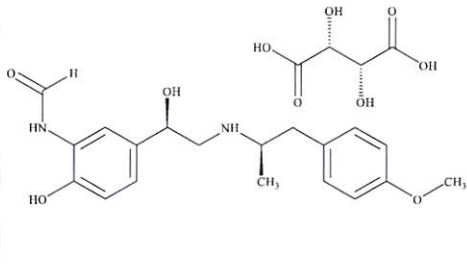


Certificate of Analysis



 Certificate No.: **20260316003**

Date: March 16, 2026

Retest date: March 10, 2029

Compound Name:	(R,R)-Formoterol L-Tartrate (Arformoterol L-Tartrate)	
Synonyms:	<i>N</i> -(2-hydroxy-5-(((R)-1-hydroxy-2-(((R)-1-(4-methoxyphenyl)propan-2-yl)amino)ethyl)phenyl)formamide, (2R,3R)-2,3-dihydroxysuccinic acid (1:1)	
TLC Catalogue Number:	F-1128	
CAS Number:	200815-49-2	
Alternate CAS Number:	67346-49-0 (free base)	
Molecular Weight:	344.41 150.09	
Molecular Formula:	C ₁₉ H ₂₄ N ₂ O ₄ . C ₄ H ₆ O ₆	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7020-041A3	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, Water	

Test Description	Specifications	Results
Visual Description	White to 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%	99.6%
Impurity (HPLC)	RT 12.67, 0.15%; RT 15.72, 0.11%	
Purity (Chiral HPLC)	Not less than 98.0%	100.0%
Water Content (KF)	N/A	0.2%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.52, H ₂ O): -29.6°
Residual Solvents (NMR)	0.3% isopropanol	
Assay (%)	Not less than 90.0%	99.1%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/16/2026
Approved by:	Quality Assurance		03/16/2026

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