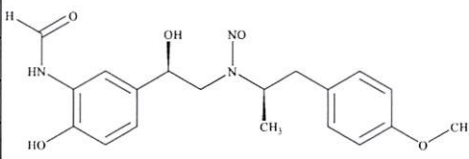


Certificate of Analysis



Certificate No.: 20251118507

Date: November 18, 2025

Retest date: November 13, 2028

Compound Name:	<i>N</i> -Nitroso-(<i>R,R</i>)-Formoterol	
Synonyms:	<i>N</i> -(2-hydroxy-5-((<i>R</i>)-1-hydroxy-2-(((<i>R</i>)-1-(4-methoxyphenyl)propan-2-yl)(nitroso)amino)ethyl)phenyl)formamide	
TLC Catalogue Number:	F-1174	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	373.41	
Molecular Formula:	C ₁₉ H ₂₃ N ₃ O ₅	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	5316-096A4	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, Ethanol	

Test Description	Specifications	Results
Visual Description	Pale yellow solid	Conforms
Identification		
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.4%
Impurity (HPLC)	RT 5.58, 0.21%; RT 12.03, 0.25%	
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=0.41, DMSO): -50.1°
Residual Solvents (NMR)	0.1% acetonitrile	
Assay (%)	Not less than 90.0%	99.1%
Recommendation:	Release. The compound is a <i>N</i> -Nitroso product. Avoid using metal spatula and applying pressure. Wear proper personal protective equipment when handling.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/18/2025
Approved by:	Quality Assurance		11/18/2025

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