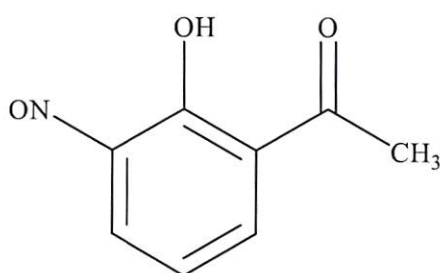


Certificate of Analysis



Certificate No.: 20260611003

Date: June 11, 2026

Retest date: June 8, 2029

Compound Name:	Pranlukast Impurity 4	
Synonyms:	1-(2-hydroxy-3-nitrosophenyl)ethan-1-one	
TLC Catalogue Number:	P-407	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	165.15	
Molecular Formula:	C ₈ H ₇ NO ₃	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7457-036A2	
Storage Conditions:	Protect from air, store at 2-8 °C	
Solubility:	Acetonitrile, DMSO, DMF	

Test Description	Specifications	Results
Visual Description	Pale orange solid	Conforms
Identification		
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	96.8%
Impurity (HPLC)	RT 15.58, 1.93%; RT 18.87, 0.12%; RT 21.59, 0.94%	
Residual Solvents (NMR)	0.3% methanol	
Assay (qNMR)	Not less than 90.0%	91.1%
Recommendation:	Release. The compound is a Nitroso product. Avoid using metal spatula and applying pressure. Wear proper personal protective equipment when handling. It contains 1.9% M+44 impurity (RT 15.58) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/11/2026
Approved by:	Quality Assurance		06/11/2026

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