

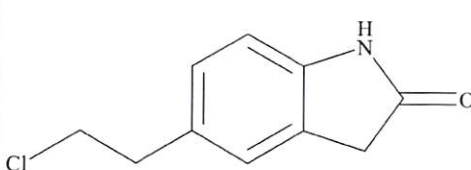
Certificate of Analysis

Certificate No.: **20231121009**

Date: November 21, 2023

Retest date: November 15, 2026

Compound Name: Diclofenac Impurity 12	
Synonyms:	5-(2-chloroethyl)indolin-2-one
TLC Catalogue Number:	D-0650
CAS Number:	118306-76-6
Molecular Weight:	195.65
Molecular Formula:	C ₁₀ H ₁₀ ClNO
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3940-005A4
Storage Conditions:	Store at 2-8 °C
Solubility:	DMSO, THF, Acetonitrile



Test Description	Specifications	Results
Visual Description	Pale brown solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.1%
Residual Solvents (NMR)	0.1% isopropanol and 0.1% tetrahydrofuran	
Assay (%)	Not less than 90.0%	99.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control	<i>Keleim Zhu</i>	11/22/2023
Approved by:	Quality Assurance	<i>[Signature]</i>	11/22/2023

Attachments: HPLC, IR, MS and NMR spectra.