

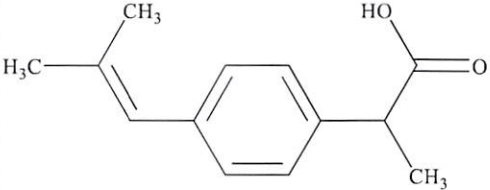
Certificate of Analysis

Certificate No.: 20250515002


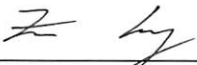
Date: May 15, 2025

Retest date: May 14, 2028

Compound Name: Ibuprofen Impurity 27	
Synonyms:	2-(4-(2-methylprop-1-en-1-yl)phenyl)propanoic acid
TLC Catalogue Number:	I-0456
CAS Number:	75625-99-9
Alternate CAS Number:	N/A
Molecular Weight:	204.27
Molecular Formula:	C ₁₃ H ₁₆ O ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4346-060A4
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



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%	100.0%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.8%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/15/2025
Approved by:	Quality Assurance		05/15/2025

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