

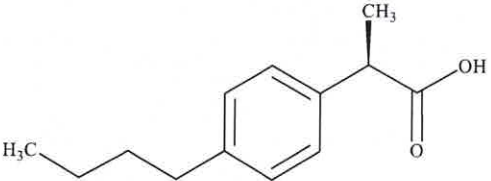
Certificate of Analysis

Certificate No.: **20250321009**



Date: March 21, 2025

Retest date: March 19, 2028

Compound Name: (R)-Ibuprofen EP Impurity B	
Synonyms:	(R)-2-(4-butylphenyl)propanoic acid
TLC Catalogue Number:	I-04100
CAS Number:	1263078-21-2
Alternate CAS Number:	N/A
Molecular Weight:	206.29
Molecular Formula:	C ₁₃ H ₁₈ O ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	6698-089A2
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Acetonitrile, Ethanol



Test Description	Specifications	Results
Visual Description	Colorless liquid	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	
Purity (Chiral HPLC)	Not less than 98.0%	99.8%
Optical Rotation	[α] _D ^{22.0} (c=1.00, CHCl ₃): -43.0°	[α] _D ^{22.0} (c=1.06, CHCl ₃): -51.4°
Residual Solvents (NMR)	1.5% ethyl acetate	
Assay (qNMR)	Not less than 90.0%	97.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/21/2025
Approved by:	Quality Assurance		03/21/2025

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