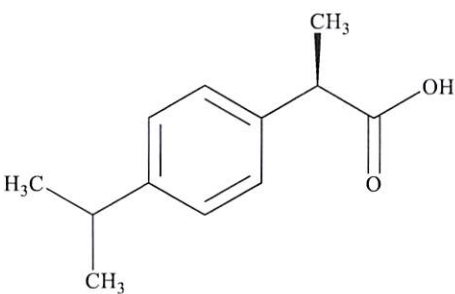


Certificate of Analysis



Certificate No.: 20250530502-2

Date: May 30, 2025

Retest date: May 26, 2028

Compound Name:	(R)-Isopropyl Ibuprofen	
Synonyms:	(2R)-2-[4-isopropylphenyl]propanoic acid	
TLC Catalogue Number:	I-0453	
CAS Number:	124816-46-2	
Alternate CAS Number:	3585-48-6 (Racemic)	
Molecular Weight:	192.26	
Molecular Formula:	C ₁₂ H ₁₆ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	2319-040A1	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol	

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%	99.7%
Impurity (HPLC)	N/A	
Purity (Chiral HPLC)	Not less than 98.0%	100.0%
Water Content (KF)	N/A	0.1%
Optical Rotation	N/A	[α] _D ^{22.0} (c=0.83, CH ₃ OH): -66.1°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.6%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		02/18/2026
Approved by:	Quality Assurance		02/18/2026

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