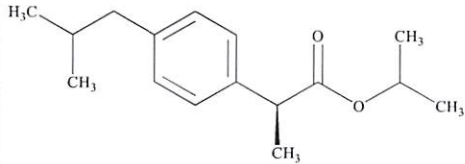


## Certificate of Analysis



Certificate No.: 20260624005

Date: June 24, 2026

Retest date: June 22, 2029

<b>Compound Name:</b>	<b>(S)-Ibuprofen Isopropyl Ester</b>		
<b>Synonyms:</b>	isopropyl (S)-2-(4-isobutylphenyl)propanoate		
<b>TLC Catalogue Number:</b>	I-04107		
<b>CAS Number:</b>	1114975-39-1		
<b>Alternate CAS Number:</b>	64622-17-9 (Racemic)		
<b>Molecular Weight:</b>	248.37		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>24</sub> O <sub>2</sub>		
<b>Source:</b>	TLC Pharmaceutical Standards		
<b>Source Lot No.:</b>	7445-062A4		
<b>Storage Conditions:</b>	Store at 2-8 °C		
<b>Solubility:</b>	Acetonitrile, DMSO, DMF		

Test Description	Specifications	Results
<b>Visual Description</b>	Colorless liquid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.9%</b>
<b>Impurity (HPLC)</b>	N/A	
<b>Water Content (KF)</b>	N/A	<b>0.2%</b>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20.0</sup> (c=1.50, CHCl <sub>3</sub> ): +22.3°	[α] <sub>D</sub> <sup>20.0</sup> (c=0.80, CHCl <sub>3</sub> ): <b>+26.1°</b>
<b>Residual Solvents (NMR)</b>	0.4% ethyl acetate	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.3%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/24/2026
Approved by:	Quality Assurance		06/24/2026

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