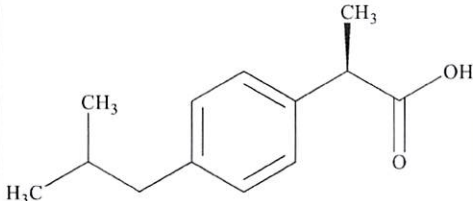




**Certificate of Analysis**Certificate No.: **20240930510**

Date: September 30, 2024

Retest date: September 27, 2027

<b>Compound Name:</b>	<b>(R)-Ibuprofen</b>	
<b>Synonyms:</b>	(R)-2-(4-isobutylphenyl)propanoic acid	
<b>TLC Catalogue Number:</b>	I-046	
<b>CAS Number:</b>	51146-57-7	
<b>Molecular Weight:</b>	206.29	
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>18</sub> O <sub>2</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	1175-070A2	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, Ethanol	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b><sup>13</sup>C NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Elemental Analysis</b>	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>Purity (Chiral HPLC)</b>	Not less than 98.0%	<b>100.0%</b>
<b>Water Content (KF)</b>	N/A	<b>0.2%</b>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20.0</sup> (c=0.92, ethanol): -51.1°	[α] <sub>D</sub> <sup>20.0</sup> (c=0.52, ethanol): <b>-59.1°</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.7%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		10/01/2024
Approved by:	Quality Assurance		10/01/2024

**Attachments:** HPLC, IR, MS and NMR spectra.