

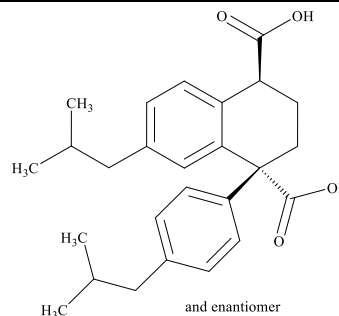
Certificate of Analysis

Certificate No.: 20200918004

Date: September 18, 2020

Retest date: July 28, 2023

Compound Name: <i>trans</i> -Ibuprofen EP Impurity G	
Synonyms:	<i>rel</i> -(1R,4S)-7-isobutyl-1-(4-isobutylphenyl)-1,2,3,4-tetrahydronaphthalene-1,4-dicarboxylic acid
TLC Catalogue Number:	I-0443
CAS Number:	N/A
Molecular Weight:	408.54
Molecular Formula:	C ₂₆ H ₃₂ O ₄
Source:	TLC Pharmaceutical Standards
Source Lot No.:	3978-038A5
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, DMF



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%	98.9%
Impurity (HPLC)	RT 7.04, 0.15%; RT 9.93, 0.10%; RT 15.27, 0.48%	
Water Content (KF)	N/A	0.6%
Residual Solvents (NMR)	1.8% methanol	
Assay (%)	Not less than 90.0%	96.5%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.