CERTIFICATE OF ANALYSIS

(Certificate No. KMI002042-01)

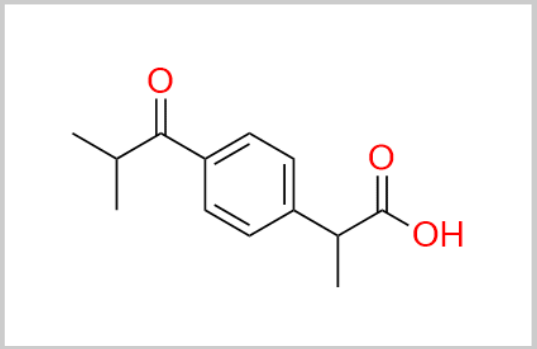
Release Date: 29/05/2025 **Re-test Date:** 28/05/2028

Ibuprofen Impurity J

Identification

Chemical Name :
(2RS)-2-[4-(2-Methylpropanoyl)phenyl]propanoic acid (as per EP)

Alt. Name	: Ibuprofen USP Related Compound J ; Ibuprofen BP Impurity J ; 1-Oxo Ibuprofen
CAT No.	: KMI002042
CAS No.	: 65813-55-0
Molecular Formula	: C13H16O3
Molecular Weight	: 220.3



Analytical Information

Batch No.	: IBU-RC-J-045-089	**Solubility**	: Acetonitrile
Description	: White Solid	**Mass**	: Confirm
HPLC Purity	: 99.83 %	**IR**	: Confirm
Weight Loss By TGA	: 0.81 %	**1H NMR**	: Confirm
% Potency	: 99.02 %		

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.81(Weight Loss By TGA)] x [99.83(HPLC Purity)]/100 = 99.02 %
-Re-tested on 29.05.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		29/05/2025
Reviewed & Approved By	Quality Control	Jatin Patel		29/05/2025

Attachments : COA, HPLC, MASS, 1HNMR, IR and TGA