

湖北亨迪药业股份有限公司

HUBEI BIOCAUSE HEILEN PHARMACEUTICAL CO.,LTD

Certificate of Analysis

COS covered batch.

COS No.: R1-CEP 2002-099-Rev 07

No.:230799

Product: Ibuprofen
Batch#:C100-2303038M
Manufacturing Date:2023.03.03

Quantity:200kg

Expiry Date: 2028.03.02

Quantity:200kg Testing Date:2023.03.05

Test Standard: EP11.0

Items	Specifications	Results
Characteristics	White Crystalline Powder	Conforms
Solubility	Practically insoluble in water, freely soluble in acetone, in methanol and in methylene chloride. It dissolves in dilute solutions of alkalihydroxides and carbonates.	Conforms
Identification	A. Melting Point :75.0—78.0°C	75.5-76.4°C
	C. IR Spectral Match	Conforms
Optical Rotation	-0.050— +0.050	0.00°
Appearance of Solution	Clear and Colorless	Conforms
Related Substances	2-[3-(2-methylpropyl)phenyl]propanoic acid(Impurity A): not more than 0.15%	0.02%
	2-[4-(2-methylpropanoyl)phenyl]propanoic acid(Impurity J): not more than 0.15%	Not detected
	2-(4-methylphenyl)propanoic acid(Impurity D): not more than 0.05%	Not detected
	2-(4-ethylphenyl)propanoic acid(Impurity N): not more than 0.15%	Not detected
	2-(4-propylphenyl)propanoic acid: not more than 0.05%	0.01%
	2-(4-butylphenyl)propanoic acid(Impurity B): not more than 0.05%	Not detected
	Any unknown impurity: not more than 0.05%	0.041%
	Total impurities: not more than 0.2%	0.10%
Loss on Drying	Not More Than 0.5%	0.13%
Sulfated Ash	Not More Than 0. 1%	0.01%
Assay(Dry Basis)	98.5 - 101.0%	99.5%
Residual solvents	Petroleum ether not more than 250ppm	56ppm
	Methanol not more than 3000ppm	Not detected
	Toluene not more than 890ppm	Not detected
	ADDITIONAL TESTS	
Bulk Density	0.25-0.50g/ml	0.39g/ml
Гарреd Density	0.50-0.75g/ml	0.63g/ml
Median Particle Size	60-90um	80.3um

route of synthesis used.

Qc supervisor: 李宁

Checked by: 艾芸

Analyst(s): 刘向雨 王燕云 欧苗 李海霞

宋格平 余绍岚 周成 李志强