

Certificate of Analysis

Product Name	Melatonin	CAS #	73-31-4
Lot No.	KT20250103	Test Date	2025/01/4
Mfg Date	2025/01/03	Report Date	2025/02 /21
Expire Date	2027/01/02	Country of origin	P.R.China
Non-Irradiated / Non-ETO/ Non Excipients / GMO Free			

Analysis Items	Specifications	Results	Test Method
Characteristics	White Or Off-White Crystalline Powder	Off-white powder	Visual
Identification	Infrared Absorption	Conforms	IR
	Ultraviolet Absorption	Conforms	UV
	HPLC Identification Test	Conforms	HPLC
Melting Point	116-120 °C	117.6 °C	USP<741>
Assay (On dry basis)	98.5-101.5 %	99.85%	HPLC
Individual Impurities	NMT 0.1 %	0.01%	HPLC
Total Impurities	NMT 0.5 %	0.02%	HPLC
Loss On Drying	NMT 0.5 %	0.08 %	USP<731>
Residue On Ignition	NMT 0.1 %	0.05 %	USP<281>
Chloride	NMT 0.02 %	<0.02 %	USP<221>
Residual Solvents	NMT 1000 ppm	295 ppm	GC
Heavy Metals	NMT 10 ppm	Conforms	CP2020<0821>
Lead(Pb)	NMT 2.0 ppm	Conforms	ICP-MS
Arsenic(As)	NMT 1.0 ppm	Conforms	ICP-MS
Cadmium(Cd)	NMT 1.0 ppm	Conforms	ICP-MS
Mercury(Hg)	NMT 0.1 ppm	Conforms	ICP-MS
Total Aerobic Bacteria	NMT 1000 cfu/g	< 10 cfu/g	GB4789.2
Yeast & Mold	NMT 50 cfu/g	< 10 cfu/g	GB4789.15
Coliform Group	NMT 0.92 mpn/g	<0.3 mpn/g	GB4789.3
E.Coli.	Absent/25/g	ND	GB4789.38
Salmonella	Absent/25/g	ND	GB4789.4
Staphylococcus	Absent/25/g	ND	GB4789.10
Conclusion	This product complies with USP43, EP10, BPstandard.		
Storage	Airtight and dry storage.Stay away from bright lights and heat sources.		

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