



## Certificate of Analysis

Product name	Melatonin	CAS No.:	73-31-4
Package:	25kg/Drum	Quantity:	200kg
MFG Date:	2025/05/20	EXP Date:	2028/05/19
Batch No.:	MT2505201	Standard:	In house

Items	Standards	Results
Appearance	Off-white powder	Conform
Identification		
Identification IR	Pass test	Conform
Identification UV	Pass test	Conform
Identification HPLC	Pass test	Conform
Odor	Characteristics	Conform
Individual impurity	$\leq 0.1\%$	0.06%
Total impurities	$\leq 1.0\%$	0.23%
Loss on drying	$\leq 1.0\%$	0.13%
Residue on ignition	$\leq 0.1\%$	0.09%
Loss on drying	$\leq 0.2\%$	0.1%
Residue on ignition	$\leq 0.1\%$	0.03%
Chloride	$\leq 0.02\%$	$< 0.02\%$
Particle Size	$\geq 90\%$ through 300 mesh	Conform
Residual solvent	Meets as per USP	Conform
Heavy Metals	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Lead	$\leq 0.5\text{ppm}$	$< 0.5\text{ppm}$
Arsenic	$\leq 1.0\text{ppm}$	$< 1.0\text{ppm}$
Cadmium	$\leq 0.3\text{ppm}$	$< 0.3\text{ppm}$
Mercury	$\leq 0.2\text{ppm}$	$< 0.2\text{ppm}$
Chromium	$\leq 2.0\text{ppm}$	$< 2.0\text{ppm}$
Total Aerobic Count	$\leq 1000\text{cfu/g}$	$< 1000\text{cfu/g}$
Molds and Yeasts	$\leq 50\text{cfu/g}$	$< 50\text{cfu/g}$
Coliforms	NMT100cfu/g	NMT100cfu/g
E. Coli	Negative	Negative
Staphylococcus Aureus	Negative	Negative
Salmonella	Negative	Negative
Assay (HPLC)	98.5%-101.5%	99.4%
Conclusion	Conform to the standard of in-house.	

