WUHU TIANCI CHEMICAL CO., LTD

Address: No. 4, 2277, No. 8 Xiangtai Road, Guandou Street, Wuhu Area,

China Pilot Free Trade Zone Website: www.tcchems.com

SPECIFICATION

Melatonin

Test	Method	Specifications
Description	Visual Inspection	Off-White to White Crystalline Powder
Chromatographic	TLC	No Secondary Spot and Identical Rf
Identification	IR	Conforms to Referrnce
Assay by HPLC	HPLC Melatonin HPLC Impurities Peak E	⩾99.5% Total ⩽ 1.0% Absent
Heavy Metals As Pb Cd Hg Sum		 ≤0.3ppm ≤0.3ppm ≤0.3ppm ≤0.1ppm ≤1ppm
Arsenic	USP	≤1ppm
Loss on drying %:	USP	≤0.2%
Melting Point	USP	117-119℃
Bulk Density	USP	g/ml
Tap Density	USP	g/ml
Particle Size	USP	100% pass 80 mesh
Ethyl Acetate	USP	Absent
Acetic Acid	USP	Absent
Ethanol	USP	≤500ppm
Total Plate Counts	USP	≤1000cfu/g
Yeast and Mold	USP	≤100cfu/g
E.Coli	USP	Negative
Staphylococcus	USP	Negative
Salmonella	USP	Negative
Conclusion	Meet the standard of USP43	