

## SPECIFICATION

<b>Product Name</b>	Melatonin	<b>Chemical Name</b>	<i>N-acetyl-5-methoxytryptamine</i>
<b>CAS No.</b>	73-31-4	<b>Molecular Formula</b>	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
<b>Test Standard</b>	USP43	<b>Molecular Weight</b>	232.28
<b>Shelf Life</b>	2 Years	<b>Country of Origin</b>	China

Item	Reference	Standard
<b>Appearance</b>	Visual	Off white to white crystalline powder
<b>Odour</b>	Organoleptic	Odorless
<b>Loss on Drying</b>	USP	Max. 1.0%
<b>Residue on Ignition</b>	USP	Max. 0.2%
<b>Bulk Dentisy</b>	USP	Min. 0.3g/ml
<b>Tapped Dentisy</b>	USP	Min. 0.4g/ml

Assay	Reference	Standard
<b>Identification</b>	HPLC	Positive
<b>Melatonin</b>	HPLC	98.5%~101.5%
<b>Individual Impurity</b>	HPLC	Max. 0.1%
<b>Total Impurities</b>	HPLC	Max. 1.0%

Item	Reference	Standard
<b>Heavy Metals</b>	USP	Max. 10 ppm
<b>Lead</b>	ICP-MS	Max. 1.0 ppm
<b>Arsenic</b>	ICP-MS	Max. 2.0 ppm
<b>Cadmium</b>	ICP-MS	Max. 1.0 ppm
<b>Mercury</b>	ICP-MS	Max. 0.1 ppm
<b>Total Aerobic</b>	USP	Max. 1000 CFU/g
<b>Mold and Yeast</b>	USP	Max. 100 CFU/g
<b>E. Coli</b>	USP	Negative/10g
<b>Salmonella</b>	USP	Negative/25g
<b>Staphylococcus Aureus</b>	USP	Negative/10g

<b>Storage</b>	Store in cool, dry, clean storage areas. Away from strong direct light and heat.
<b>Packing</b>	Packed in fibre-drum with two food grade PE bags inside, N.W.: 25Kg/Drum.

Statements
Non-Irradiated, Non-ETO, Non-GMO, Non-Allergen.