



Address: East of Tianmu Road, Laiyang Development Zone, Yantai City, Shandong Province, 265200, China

Specification

| | | | |
|----------------------|-----------|-------------------|---|
| Product Name: | Melatonin | | |
| CAS No. | 73-31-4 | Molecular Formula | C ₁₃ H ₁₆ N ₂ O ₂ |
| Formula Weight | 232.28 | Pack Size | 25kg/drum |

| Test Item | Specification | Test Method |
|------------------------------|---------------------------------------|-------------|
| Appearance | White or Off-White Crystalline Powder | Visual |
| Identification | Infrared Absorption | IR |
| | Ultraviolet Absorption | UV |
| | HPLC Identification Test | HPLC |
| Melting Point °C | 116 ~ 120°C | USP<741> |
| Assay (On dry basis) | 98.5 ~ 101.5% | HPLC |
| Individual Impurities | ≤0.1% | HPLC |
| Total Impurities | ≤1.0% | HPLC |
| Loss on drying | ≤1.0% | USP<731> |
| Residue on ignition | ≤0.1% | USP<281> |
| Heavy Metals | | |
| Lead (Pb) | ≤1 ppm | ICP-MS |
| Arsenic (As) | ≤1 ppm | ICP-MS |
| Cadmium (Cd) | ≤1 ppm | ICP-MS |
| Mercury (Hg) | ≤0.1 ppm | ICP-MS |
| Microbiological Tests | | |
| Total Microbial Count | ≤1000CFU/g | GB 4789.2 |
| Mold and Yeast | ≤50CFU/g | GB 4789.15 |
| <i>E. Coli.</i> | ≤0.92MPN/g | GB 4789.38 |
| <i>Salmonella</i> | Negative/25g | GB 4789.4 |

| Packing and Storage | |
|----------------------------|---|
| Packing | Packed in paper-drums and two plastic-bags inside. N.W:25kgs/drums. |
| Storage | Store in a well-closed container protected from light. |
| Shelf Life | 24 months if sealed and store away from direct sun light. |

Note: Non-GMO, Allergen Free, BSE/TSE Free.