



## TECHNICAL DATA SHEET

LiposoMore™ Liposomal Melatonin (50% purity) is a cutting-edge dietary supplement ingredient developed to enhance the bioavailability, stability, and absorption of melatonin. Utilizing advanced liposomal encapsulation, this ingredient delivers melatonin efficiently into the bloodstream, supporting faster sleep onset and sustained sleep quality. Its water-dispersible form, clean-label compliance, and high potency make it ideal for innovative sleep support products in capsule, sachet, or functional beverage formats.

### 1. Product Details

- Product Name: Liposomal Melatonin Powder
- Brand: LiposoMore™
- Purity: 50% Melatonin (HPLC)
- Form: Free-flowing beige to light tan powder
- Delivery System: Liposomal encapsulation using natural phospholipids
- CAS Number: 73-31-4
- Molecular Formula:  $C_{13}H_{16}N_2O_2$
- Molecular Weight: 232.28 g/mol

### 2. Product Description

LiposoMore™ Liposomal Melatonin is designed to optimize the delivery and performance of melatonin in dietary supplements. Through liposomal encapsulation, melatonin is protected from digestive degradation, enabling higher bioavailability and longer-lasting effects. This ingredient is especially suitable for sleep aid supplements and circadian rhythm support. With clean-label attributes, vegan compliance, and versatile formulation options, it is ideal for modern supplement applications.

### 3. Specifications

Item	Specification
Appearance	Beige to light tan powder
Purity (Melatonin)	50% (HPLC)
Particle Size	D90 < 200 $\mu$ m
Loss on Drying	≤ 5.0%
Heavy Metals	≤ 10 ppm
Arsenic (As)	≤ 1.0 ppm
Lead (Pb)	≤ 1.0 ppm
Total Plate Count	≤ 1,000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. coli	Negative/10g
Salmonella	Negative/25g
Solubility	Dispersible in water
Encapsulation Efficiency	≥ 85%

#### 4. Applications

- Sleep aid supplements (capsules, tablets, sachets)
- Jet lag recovery formulas
- Functional beverages and powders
- Circadian rhythm regulation products
- Relaxation and stress-relief formulations

#### 5. Packaging & Storage

Packaging: 1 kg/foil bag, 10 kg/carton or customized as needed

Storage: Store in a cool, dry place. Keep away from direct sunlight and heat.

Shelf Life: 24 months in unopened original packaging

#### 6. Regulatory & Quality Compliance

- Manufactured under ISO 9001 and HACCP-certified facilities
- Complies with GMP standards
- Non-GMO, allergen-free, and vegan-friendly
- Third-party tested for quality, purity, and safety

#### Contact Information



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