



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Certificate of Analysis (COA)

Issue Date: 20 FEB 2026

### Product Information

Item	Details
Product Name	Melatonin Hydrochloride
CAS Number	86347-14-0
Batch Number	MEL-HCL-20260220
Molecular Formula	$C_{13}H_{16}N_2O_2 \cdot HCl$
Molecular Weight	268.74
Appearance	White to off-white crystalline powder
Storage	Cool, dry, sealed, protected from light
Shelf Life	24 months

### Test Results

Test Item	Specification	Result	Method
Assay (dry basis)	98.0–102.0%	99.4%	HPLC
Appearance	White to off-white powder	Conforms	Visual
Identification	Positive	Conforms	HPLC & IR
Melting Point	145–155°C	149.2°C	Capillary
pH (1% solution)	3.0–5.0	3.8	pH Meter
Loss on Drying	≤0.5%	0.12%	105°C, 2h
Residue on Ignition	≤0.1%	0.03%	600°C
Heavy Metals (Pb)	≤10 ppm	<10 ppm	AAS
Arsenic (As)	≤2 ppm	<2 ppm	AFS
Related Substances	≤1.0%	0.21%	HPLC
Total Aerobic Microbes	≤100 CFU/g	<10 CFU/g	Plate count
Yeast & Mold	≤50 CFU/g	<10 CFU/g	Plate count
E. coli	Negative	Negative	Test
Salmonella	Negative	Negative	Test

**Certification** The above batch complies with international pharmaceutical and food-grade standards. Qualified for use in dietary supplements, pharmaceutical formulations, and research use.

**Authorized Signatory** Date: 20 FEB 2026