

CERTIFICATE OF ANALYSIS

Public sample verification record. Live customer batches require QA confirmation before file release.

PRODUCT NAME

Melatonin

MOLECULAR FORMULA

C13H16N2O2

MOLECULAR WEIGHT

232.3 g/mol

CAS NO.

73-31-4

COA NO.

COA-PS-MELATONI-2606-041

BATCH NO.

PS-MELATONI-2606-041

SPECIFICATION

10 mg / vial

MFG. DATE

20 June 2026

RETEST DATE

20 June 2028

STORAGE

-20 °C, protect from light

TEST ITEM	ACCEPTANCE CRITERIA	RESULT	STATUS
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder	Pass
Identification (LC-MS)	Consistent with reference standard or controlled identity file	Conforms	Pass
Peptide Purity (RP-HPLC)	NLT 98.0%	98.35%	Pass
Related Impurities (HPLC)	Each impurity NMT 1.0%; total NMT 2.0%	Each <= 0.80%; total 1.77%	Pass
Mass Spectrum (ESI-MS)	232.3 Da theoretical	232.3 Da	Pass
Peptide Content (Assay)	NLT 90.0% on dry basis	96.1%	Pass
Water Content (Karl Fischer)	NMT 7.0%	2.5%	Pass
Residual Solvents (GC)	ACN NMT 410 ppm; DCM NMT 600 ppm; MTBE NMT 5000 ppm	ACN 136 ppm; others N.D.	Pass
Heavy Metals (as Pb)	NMT 10 ppm	< 2 ppm	Pass
Bacterial Endotoxins	NMT 1 EU/mg	< 0.10 EU/mg	Pass
Microbial Limits	TAMC NMT 100 cfu/g; TYMC NMT 100 cfu/g	TAMC < 20; TYMC < 20 cfu/g	Pass
Fill Content	Catalog fill +/-10%	10 mg / vial	Pass

QA APPROVAL

Testing completed 20 June 2026

Kevin Fang

Quality Assurance Reviewer - Kevin Fang · 21 June 2026

DOCUMENT CONTROL

RELEASE DECISION

Approved for sample verification

DOCUMENT STATUS

Demo record - QA confirmation required

Sample notice: This public record demonstrates the PeptideSource verification format. Current customer lots require QA confirmation, order context, or controlled access before full release files are displayed.