

CERTIFICATE OF ANALYSIS

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

PRODUCT NAME Vitamin B-12	BATCH NO. PS-VB1-2606-058
MOLECULAR FORMULA C63H88CoN14O14P	SPECIFICATION 10 mg / vial
MOLECULAR WEIGHT 1355.4 g/mol	MFG. DATE 16 June 2026
CAS NO. 68-19-9	RETEST DATE 16 June 2028
COA NO. COA-PS-VB1-2606-058	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%	99.49%	Pass
Related Impurities (HPLC)	Each impurity NMT 1.0%; total NMT 2.0%	Each <= 0.30%; total 0.67%	Pass
Mass Spectrum (ESI-MS)	1355.4 Da theoretical	1355.4 Da	Pass
Peptide Content (Assay)	NLT 90.0% on dry basis	97.8%	Pass
Water Content (Karl Fischer)	NMT 7.0%	1.1%	Pass
Residual Solvents (GC)	ACN NMT 410 ppm; DCM NMT 600 ppm; MTBE NMT 5000 ppm	ACN 305 ppm; others N.D.	Pass
Heavy Metals (as Pb)	NMT 10 ppm	< 2 ppm	Pass
Bacterial Endotoxins	NMT 1 EU/mg	< 0.05 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 16 June 2026

Kevin Fang

Quality Assurance Reviewer - Kevin Fang · 17 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.