

B-12

10 mg/vial · PLB-V-B12-10 · Prepared for [REDACTED]

DRAFT

SAMPLE INFORMATION

SAMPLE NAME	MANUFACTURED	LAB SAMPLE ID
B-12 10 mg vial	21-Aug-2026	260827-899-NHS-2
LOT NUMBER	EXPIRATION	RECEIVED
PLB-B1210-20260821-01	21-Aug-2027	08/24/2026
SAMPLE MATRIX	VIALS IN LOT	REPORT DATE
Lyophilized peptide	300	08/31/2026
INTENDED USE	TARGET FILL	
Research use only	10.00 mg per vial	

PURITY

99%

TESTED · HPLC @ 304 nm

WATER ACTIVITY

0.33 aw

PASS · aw

MICROBIALS

Not detected

PASS · qPCR

1. Results Summary

ALL PARAMETERS CONFORM

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Purity	HPLC @ 304 nm	≥99%	99%	TESTED
Microbials	qPCR	Aerobic count, Enterobacteriaceae, yeast & mold: not detected in 1 g	Not detected · 6 analytes	PASS
Water Activity	Water Activity Meter	<0.65 aw (threshold for microbial growth)	0.33 aw	PASS

2. Panel Detail

Per-analyte readings behind the panel verdicts above

Microbials qPCR, per gram

PASS

ANALYTE	RESULT	STATUS	ANALYTE	RESULT	STATUS	ANALYTE	RESULT	STATUS
E. Coli	ND in 1 g	Pass	Aspergillus flavus	ND in 1 g	Pass	Aspergillus niger	ND in 1 g	Pass
Salmonella spp.	ND in 1 g	Pass	Aspergillus fumigatus	ND in 1 g	Pass	Aspergillus terreus	ND in 1 g	Pass

3. Methods and Notes

What each test measures and why it is on this certificate

Purity · HPLC @ 304 nm

Measures what fraction of the material is the complete target peptide vs. synthesis byproducts, truncated sequences, or degradation products. High purity ensures the results reflect the intended compound and ensures identity by confirming retention time during this test aligns with a certified reference standard.

Microbials · qPCR

Confirms the finished vial is free of viable bacteria, Enterobacteriaceae, yeast, and mold. Microbial contamination in reconstituted peptide solutions can invalidate cell-based and in vivo research results.



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Certificate of Analysis

COA PLB-COA-B1210-20260821-01

Lot PLB-B1210-20260821-01 · Issued Sep15,2026

Water Activity · Water Activity Meter

Lyophilized peptides absorb atmospheric moisture, which dilutes the active content per mg and accelerates degradation. Knowing water content allows researchers to calculate the true peptide mass when preparing solutions for experiments.

4. Authorization and Release

● DRAFT

TESTED AND CERTIFIED BY

Raquel Keledjian

Raquel Keledjian

Laboratory Director, pH Solutions, LLC

ISO/IEC 17025:2017 · Accreditation #84351



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