pH SOLUTIONS

pH Solutions, LLC
181 W. Huntington Dr. #106, Monrovia, CA 91016
(626) 734-6620 · www.phsolutionslab.com
ISO/IEC 17025:2017 Accredited · ilac-MRA · PJLA #84351

Certificate of Analysis

COA **PLB-COA-GLR30-20260823-01**
Lot **PLB-GLR30-20260823-01** · Issued **Sep14,2026**

GLP-3 (R)

30 mg/vial · PLB-V-GLR-30 ·

● RELEASED

CAS **2381089-83-2** Formula **C221H342N46O68** MW **4731.3 g/mol**

SAMPLE INFORMATION

SAMPLE NAME	MANUFACTURED	LAB SAMPLE ID
GLP-3 (R) 30 mg vial	23-Aug-2026	260831-899-NHS-9
LOT NUMBER	EXPIRATION	RECEIVED
PLB-GLR30-20260823-01	23-Aug-2027	08/31/2026
SAMPLE MATRIX	VIALS IN LOT	REPORT DATE
Lyophilized peptide	740	09/07/2026
INTENDED USE	TARGET FILL	
Research use only	30.00 mg per vial	

PURITY
99%
TESTED · HPLC @ 274 nm

RESIDUAL SOLVENTS
Pass
PASS · GC headspace

HEAVY METALS
Pass
PASS · ICPMS

WATER ACTIVITY
0.29 aw
PASS · aw

MICROBIALS
Not detected
PASS · qPCR

1. Results Summary

ALL PARAMETERS CONFORM

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Purity	HPLC @ 274 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)	0.29 aw	PASS
Residual Solvents Tested on the API lot	GC headspace	ICH Q3C Class 2/3 limits	Below ICH limits	PASS
Heavy Metals As, Cd, Pb, Hg · tested on the API lot	ICPMS	USP <232>	Below USP limits	PASS

2. Panel Detail

Per-analyte readings behind the panel verdicts above

Heavy Metals ICPMS — PASS

ANALYTE	RESULT	STATUS

ND = Not Detected · NT = Not Tested · LOD = Limit of Detection · LOQ = Limit of Quantitation · TESTED = result reported, no acceptance limit applied · PASS / FAIL = judged against the stated limit. Results relate only to the lot tested.

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Heavy metals panel	Within specification	**Pass**

Residual Solvents GC headspace

PASS

ANALYTE	RESULT	STATUS
Residual solvents panel	Within specification	**Pass**

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 @ 274 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.

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.

Heavy Metals · ICPMS

Heavy metals accumulate in biological systems and can interfere with enzyme activity, receptor binding, and cell viability. Even trace levels of arsenic, cadmium, lead, and mercury can confound in vitro and in vivo research outcomes.

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.

Residual Solvents · GC headspace

Organic solvents such as DMF, DCM, and acetonitrile are used during synthesis and purification. Residual traces can interfere with biological assays, affect cell viability, and indicate incomplete purification of the final product. This test was performed on the bulk API lot during incoming raw material inspection prior to manufacturing.

4. Authorization and Release

● RELEASED

TESTED AND CERTIFIED BY

Raquel Keledjian

Raquel Keledjian
Laboratory Director, pH Solutions, LLC
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ilac-MRA PJLA Testing
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