



CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	Certified Date	09/20/2026
Lot / Batch	AA0916261	Product Name	Acetic Acid
Concentration	3	Container	Glass Vial

This Certificate of Analysis certifies that the acetic acid reconstitution solvent listed herein was tested for acid content, purity, and physicochemical properties in accordance with applicable USP/EP methods.

ACETIC ACID ASSAY

Parameter	Specification	Result	Status
Appearance (Color)	Colorless	Colorless	PASS
Appearance (Form)	Clear Liquid	Clear Liquid	PASS
Acetic Acid Content	0.6% +/- 10%	0.60%	PASS
Purity (HPLC)	≥ 99.5%	99.8%	PASS

Parameter	Specification	Result	Status
pH (Solution)	2.8 - 3.6	3.1	PASS
Related Impurities	≤ 0.50%	< 0.05%	PASS
Density (20C)	0.999 - 1.006 g/mL	1.001 g/mL	PASS
Overall Determination			PASS

Reference: CAS 64-19-7 | $C_2H_4O_2$ | MW 60.05 g/mol | Method: Titration / HPLC per USP <621>

TESTING METHODOLOGY SUMMARY

Acetic Acid Assay

The acetic acid content was quantified by acid-base titration with potentiometric endpoint detection and confirmed by High-Performance Liquid Chromatography (HPLC) per USP <621>. The solution concentration is verified against the labeled specification, and the pH, density, and related-impurity profile are assessed to confirm identity and conformance to pharmacopeial requirements for a peptide reconstitution diluent. Peak area and titrant volume are compared against certified reference standards to determine concentration.



ADDITIONAL QUALITY SCREENS

| ENDOTOXIN SCREEN

Method	LAL (USP <85>)
Limit	≤ 0.5 EU/mL
Result	< 0.10 EU/mL
Status	PASS

| STERILITY / MICROBIAL SCREEN

Method	Rapid Sterility
Specification	No Growth
Incubation	2 days
Result	No Growth
Fungi	Not Detected
Status	PASS

| HEAVY METAL SCREEN

Method	ICP-MS
Specification	Compliant
Result	PASS
Status	PASS

