KOVERA LABS

CERTIFICATE OF ANALYSIS

REPORT # KVR-2026-65A63E

Client: Primal King Peptides

Certified: 08/24/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

SAMPLE INFORMATION

Product	NAD+ Buffered	**Form**	Lyophilized Powder
Batch	NAD0500820261	**Labeled Qty**	500 mg
Cap Color	Black	**Crimp Color**	Silver

TEST RESULTS

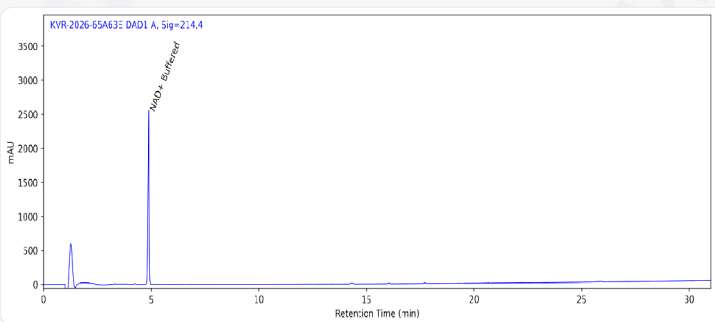
	REFERENCE STANDARD	RESULT
Purity	(>98%)	99.181% ✓
Net Content	(~500mg)	493.76 mg ✓
Identity Confirmation (LC-MS)	(NAD+ Buffered)	NAD+ Buffered ✓
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS ✓
Fentanyl Presence Analysis	(Not Detected)	Not Detected ✓
14 Day Sterility Screening	(No Growth)	No Growth ✓

HEAVY METAL SCREENING

Analyte	Result	Status
Arsenic (As)	Negative	✓
Cadmium (Cd)	Negative	✓
Lead (Pb)	Negative	✓
Mercury (Hg)	Negative	✓

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 260 nm



Lemar Arghandiwal
Lab Director

koveralabs.com/verify

Report#: KVR-2026-65A63E
Access Code: 4L7NHQF

KOVERA LABS

BACTERIAL ENDOTOXIN ANALYSIS

(Kinetic Chromogenic LAL, USP <85>)

Sample ID: **KVR-2026-65A63E**

CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	**Certified Date**	08/24/2026
Product Name	NAD+ Buffered	**Strength**	500 mg
Lot / Batch	NAD0500820261	**Condition**	Lyophilized

This Certificate of Analysis certifies that the sample listed herein was tested for bacterial endotoxin using a kinetic chromogenic LAL assay in accordance with USP <85> Bacterial Endotoxins Test.

TEST METHODOLOGY

Test Performed	Quantitative Bacterial Endotoxin Test	**Compendial Ref**	USP <85>
Assay Type	Kinetic Turbidimetric	**Detection λ**	660 nm
Detection Range	0.01 - 1.0 EU/mL	**Endotoxin Std**	E. coli O111:B4
Dilution Vol	2.0 mL	**Matrix**	LAL Reagent Water

QUANTITATIVE RESULTS

Parameter	Result
Endotoxin Level	**< 0.08 EU/mL**
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	**2.4%**
Spike CV (%)	**3.8%**
Spike Recovery (%)	**112%**
Final Determination	**PASS**

CONTROLS

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	**Pass**
Negative Control	No signal	As expected	**Pass**

INTERPRETATION

Endotoxin content was quantitatively determined using a kinetic chromogenic LAL assay in accordance with USP <85>. Result reported as below quantitation threshold. The measured endotoxin level meets the specified acceptance criteria. The sample passes the endotoxin limit test.

AUTHORIZATION

REVIEWED BY

Lemar Arghandiwal

Lab Director

CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	**Certified Date**	August 26, 2026
Product Name	NAD+ Buffered	**Strength**	500 mg
Lot / Batch	NAD0500820261	**Condition**	Lyophilized

ICP-MS metals analysis performed using EPA-referenced methods; results evaluated against internal acceptance criteria.

TEST METHODOLOGY

Test Performed	Elemental Impurities Analysis	**Instrument**	ICP-MS
Sample Prep	HNO_3 / H_2O_2 matrix	**Calibration**	Multi-element standard curve
Internal Std	Sc, Ge, In, Bi	**Material Type**	Raw Material (Research Use)

ELEMENTAL IMPURITIES RESULTS

Element	Result (ppm)	Acceptance Limit (ppm)	Status
Pb Lead	< 0.5	≤ 10	PASS
As Arsenic	< 0.15	≤ 1.5	PASS
Cd Cadmium	< 0.05	≤ 0.5	PASS
Hg Mercury	< 0.3	≤ 3	PASS

METHOD SUITABILITY (SPIKE RECOVERY)

Element	Spike Level	Recovery	Criteria
Pb Lead	5 ppm	98%	70–150%
As Arsenic	0.75 ppm	102%	70–150%
Cd Cadmium	0.25 ppm	95%	70–150%
Hg Mercury	1.5 ppm	91%	70–150%

Spike recovery confirms method suitability for the sample matrix.

INTERPRETATION

Elemental impurities were determined using ICP-MS with EPA-referenced analytical methods. All tested elements (Pb, As, Cd, Hg) are below the stated acceptance limits. Spike recovery values fall within acceptable ranges, confirming method suitability. The sample meets the stated acceptance criteria for elemental impurities.

QUALITY CONTROL

Method Blank: Pass **CCV:** Pass **Duplicate RPD:** < 20%

AUTHORIZATION

REVIEWED BY
Lemar Arghandiwal
Lab Director

KOVERA LABS

MICROBIAL STERILITY REPORT

BacT ALERT Automated Detection Method

Sample ID: **KVR-2026-65A63E**

CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	**Certified Date**	09/07/2026
Product Name	NAD+ Buffered	**Strength**	500mg
Lot / Batch	NAD0500820261	**Condition as Received**	Sealed injectable vial

This report summarizes microbial growth screening performed on the submitted sample using the BacT ALERT automated microbial detection system. The test is designed to screen for detectable microbial growth under the conditions of the method used. This report applies only to the submitted sample as tested and does not certify sterility of the entire batch lot or product line.

TEST METHODOLOGY

Test Performed	14 Day Microbial Growth Screening
Culture System	Aerobic and anaerobic culture bottles
Incubation Period	14 days
Detection Principle	Colorimetric CO_2 detection
Sample Requirement	1 vial (destructive)

TEST RESULTS

Parameter	Result
Aerobic microbial growth	No Growth
Anaerobic microbial growth	No growth detected
Final Determination	No microbial growth detected during the 14 day incubation period

METHOD OVERVIEW

The submitted sample was aseptically introduced into BacT ALERT culture bottles designed to support microbial growth detection. The BacT ALERT system continuously monitors each bottle during incubation. If microorganisms are present and grow, they may produce carbon dioxide (CO_2) which interacts with the colorimetric sensor in the bottle; the instrument detects this change photometrically. If growth is detected, the system automatically flags the bottle as positive and records the time to detection. If no growth is detected during the full incubation period, the final result is reported as no microbial growth detected.

INTERPRETATION

No microbial growth was detected in the submitted sample during the 14 day BacT ALERT incubation period. This result indicates that no detectable microbial growth was observed under the conditions of this screening method. This result should not be interpreted as a guarantee of sterility for the entire batch lot or product line.