

Client: Primal King Peptides

Certified: 08/03/2026

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	Ipamorelin	Form	Lyophilized Powder
Batch	N/A	Labeled Qty	10 mg
Cap Color	Black	Crimp Color	Silver

TEST RESULTS

	REFERENCE STANDARD	RESULT
Batch Avg Purity	(>98%)	99.571%
Batch Avg Net Content	(~10mg)	10.39 mg
Identity Confirmation (LC-MS)	(Ipamorelin)	Ipamorelin
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS
Fentanyl Presence Analysis	(Not Detected)	Not Detected
Rapid Sterility Screening	(No Growth)	No Growth

HEAVY METAL SCREENING

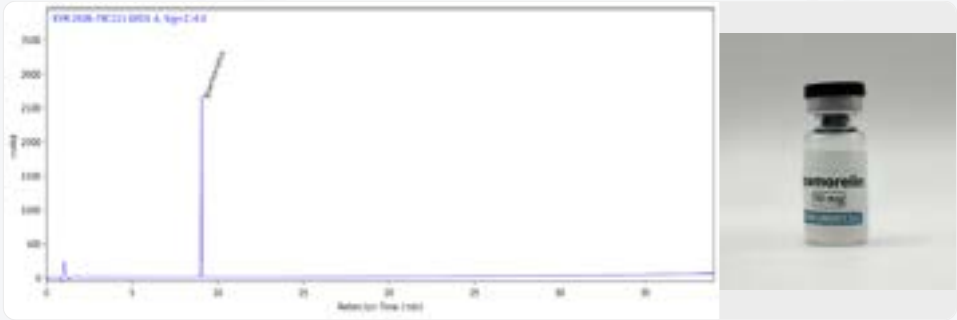
Analyte	Result	Status
Arsenic (As)	Negative	
Cadmium (Cd)	Negative	
Lead (Pb)	Negative	
Mercury (Hg)	Negative	

BATCH CONFORMITY RESULTS

Vial	Purity (%)	Net Content (mg)
Vial 1	99.474	10.46
Vial 2	99.668	10.31
Batch Average	99.571%	10.39 mg

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm



Lemar Arghandinal
Lab Director



Report#: KVR-2026-79C225
Access Code: T774QXC

CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	Certified Date	08/03/2026
Product Name	Ipamorelin	Strength	10 mg
Lot / Batch	N/A	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	< 0.07 EU/mL
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	3.8%
Spike CV (%)	5.3%
Spike Recovery (%)	107%
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 05, 2026
Product Name	Ipamorelin	Strength	10 mg
Lot / Batch	N/A	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 ₂ O 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



CLIENT & SAMPLE INFORMATION

Client	Primal King Peptides	Sample Name	Ipamorelin
Lot Number		Date Received	08/03/2026
Certified Date	08/03/2026	Sample Matrix	Lyophilized Powder

TEST METHODOLOGY
RAPID STERILITY SCREENING METHOD

Sample is reconstituted and incubated in growth media under controlled conditions. Cultures are monitored for microbial growth over the incubation period. This rapid screening method provides preliminary sterility assessment and is suitable for quality control purposes. For regulatory compliance, full compendial sterility testing may be required.

TEST RESULTS

TEST PARAMETER	SPECIFICATION	RESULT	STATUS
Bacteria (Aerobic/Anaerobic)	No Growth	No Growth	PASS
Fungi / Yeast	Not Detected	Not Detected	PASS

TEST METHOD Rapid Sterility	INCUBATION PERIOD 2 days	TEMPERATURE 30-35C
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FINAL DETERMINATION

STERILITY SCREEN RESULT
SAMPLE PASSES STERILITY SCREEN

No microbial growth detected during incubation period



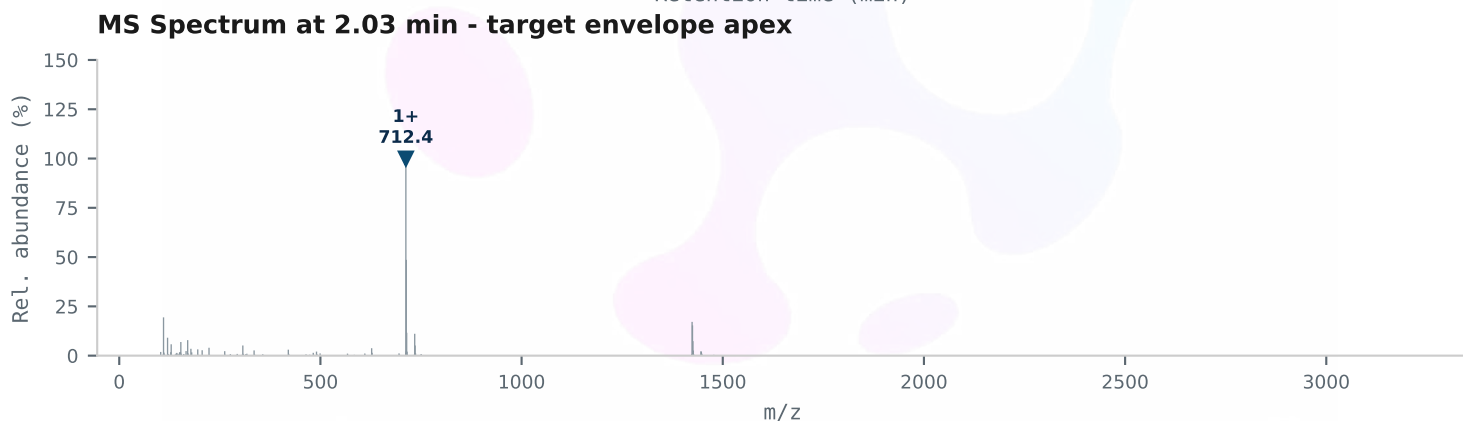
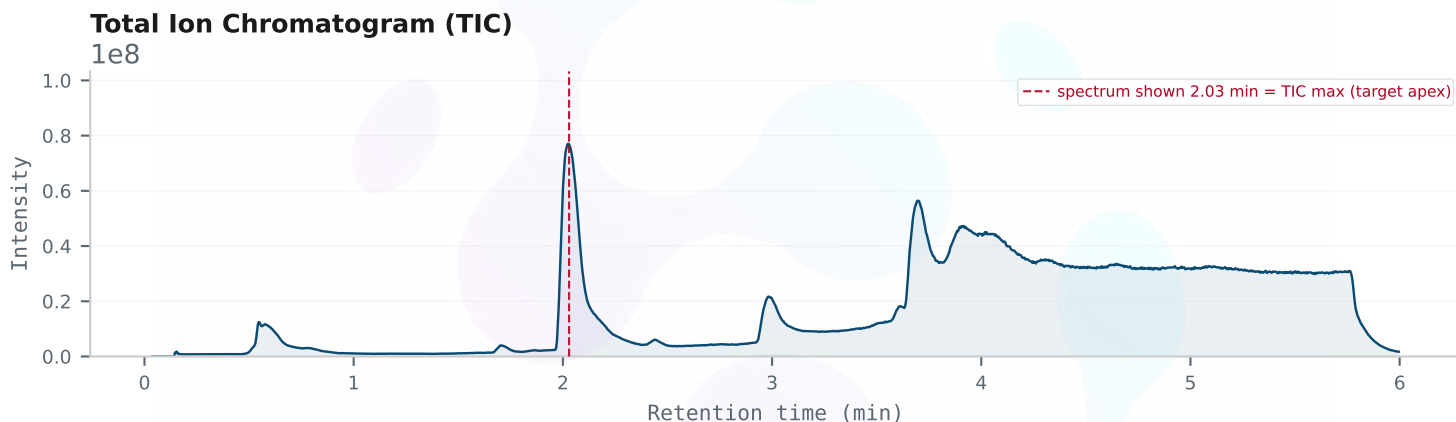
Mass Spectrometry Report

LC/MS (ESI Q-TOF) identity confirmation

IPAMORELIN - DETECTED

Data File \\DESKTOP-6H397RC\Data\PRI-321960 79C225 IPA 10mg.d

Sample Name : PRI-321960 79C225 IPA 10mg Compound : Ipamorelin
Report ID : KVR-2026-79C225 Order : PRI-321960
Acquired : 2026-08-04 15:10:52 Polarity : + (ESI)
Expected : 711.39 Da (monoisotopic) Coverage : 1/1 (100%)



Charge-State Envelope + Mass Identification

Expected neutral mass: 711.39 Da (monoisotopic)

Coverage: 1/1 (100%) Matched intensity share: 21%

Isotope envelope (inconclusive): 3 isotopologues assigned, shape 1.000 vs theoretical, monoisotopic mass measured 711.3846 Da (-1.5 ppm)

Observed neutral mass (deconvoluted): 711.38 Da [1 charge state, low confidence]

z	Expected m/z	Observed m/z	Rel. int.	Match
1+	712.393	712.392	100%	Yes

Mass Spectrometry Report

LC/MS (ESI Q-TOF) identity confirmation

Adulterant & Excipient Screen

Presumptive accurate-mass screen of EVERY MS1 scan for common RUO excipients/fillers and controlled-substance adulterants (fentanyl class), matched through $[M+H]^+$, $[M+Na]^+$, $[M+K]^+$, $[M+NH_4]^+$ adducts.

FENTANYL / ADULTERANT SCREEN: NOT DETECTED

Species	Class	Adduct	Target m/z	Obs m/z	RT (min)	Rel %	Scans
Disaccharide (sucrose / t...	Excipient	$[M+Na]^+$	365.105	365.104	0.58	100.0	73
Mannitol	Excipient	$[M+Na]^+$	205.068	205.067	0.56	15.5	43
Glucose / fructose	Excipient	$[M+Na]^+$	203.053	203.052	0.57	8.5	19
Trifluoroacetic acid (TFA)	Excipient	$[M+H]^+$	115.000	114.994	0.70	3.2	3

SCREEN, NOT CONFIRMATION. Single-stage accurate-mass ESI+ cannot distinguish isobaric compounds without MS/MS. A hit is a presumptive flag; confirm any controlled-substance (fentanyl-class) detection by MS/MS or a reference standard before any release or reporting decision. Absence of a hit does not guarantee absence of an adulterant outside this library or below the screen threshold. Excipient/filler hits are expected in many RUO products (lyoprotectants, buffers, bacteriostatic agents) and are informational.

Mass Spectrometry Report

LC/MS (ESI Q-TOF) identity confirmation

UV / DAD Chromatogram

Diode-array trace acquired on the same injection as the MS data. Channel: DAD1 A: Sig=214,4 Ref=off

