HEAVY METALS ANALYSIS

(ICP-MS, EPA-Referenced Methods)

Sample ID: **KVR-2026-9509F9**

CLIENT & SAMPLE INFORMATION

Client	Ascension Peptides	**Analysis Date**	June 03, 2026
Product Name	TB-500 (Thymosin B4)	**Strength**	5 mg
Lot / Batch	31-05260628	**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

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