CERTIFICATE OF ANALYSIS

REPORT NUMBER ONE-2026-129314
VERIFICATION CODE R7017MG
VERIFY AT UNITEDLABORATORIES.ORG

Client: ONE AMINOS

Sample information

PRODUCT	KPV	**ACTIVE IDENTITY**	Lys-Pro-Val (free acid)
BATCH / LOT NUMBER	KPV10	**LABORATORY SAMPLE ID**	2026-129314
LABELED QUANTITY	10 mg	**FORM**	Lyophilized powder
CAS NUMBER	67727-97-3	**MOLECULAR FORMULA**	C16H30N4O4
CAP COLOR	Black	**CRIMP COLOR**	Silver
DATE RECEIVED	08/27/2026	**DATE REPORTED**	09/03/2026

Test results

Test	Reference standard	Result	Status
Batch Avg Purity	> 98%	99.720%	PASS
Batch Avg Net Content	~ 10 mg	10.45 mg	PASS
Identity Confirmation (LC-MS)	Matches label	Lys-Pro-Val (free acid)	PASS
Endotoxin Safety Screen	<= 0.5 EU/mL	< 0.20 EU/mL	PASS
Microbial Sterility Screen	No Growth	No Growth	PASS

Heavy metal screening

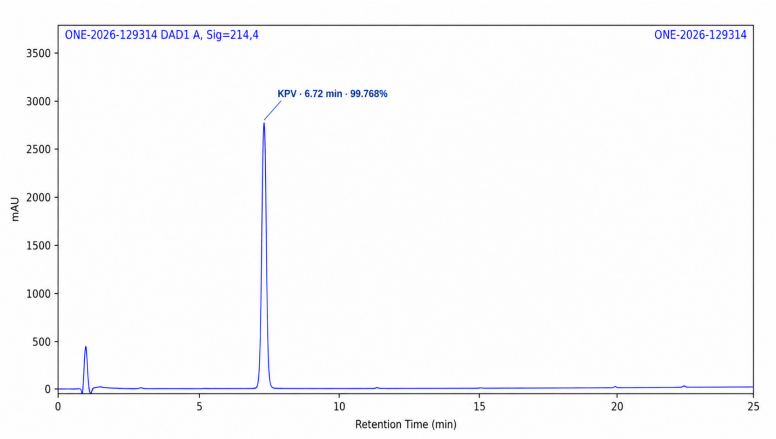
Analyte	Result	Status
Lead (Pb)	< 0.5	PASS
Arsenic (As)	< 0.15	PASS
Cadmium (Cd)	< 0.05	PASS
Mercury (Hg)	< 0.3	PASS

Conformity Results

Vial	Purity (%)	Net content (mg)
Vial 1	99.768	10.47
Vial 2	99.879	10.63
Vial 3	99.512	10.26
Batch average	99.720%	10.45

Chromatogram

RP-HPLC | DAD @ 214 nm | Laboratory chromatogram reviewed with source data



Sample vial

Review status: The analytical data, chromatogram and sample image were reviewed and authorised for issuance by Bhavrat Singh, Lab Director, on 03 September 2026.

MICROBIOLOGICAL / STERILITY TESTING

REPORT NUMBER ONE-2026-129314
VERIFICATION CODE R7017MG
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Client and sample information

CLIENT	ONE AMINOS	**SAMPLE NAME**	KPV
BATCH / LOT NUMBER	KPV10	**LABORATORY SAMPLE ID**	2026-129314
DATE RECEIVED	08/27/2026	**DATE REPORTED**	09/03/2026

Test methodology

Rapid Sterility Screening Method. The sample was reconstituted and incubated in growth media under controlled conditions, with cultures monitored for microbial growth. Full compendial sterility testing may be required for regulatory use.

Test results

Test parameter	Specification	Result	Status
Bacteria (Aerobic/Anaerobic)	No Growth	No microbial growth detected	PASS
Fungi / Yeast	Not Detected	Not Detected	PASS

Test conditions

INCUBATION PERIOD	2 days	**TEMPERATURE**	30-35 deg C

FINAL DETERMINATION: PASS - AUTHORISED BY LAB DIRECTOR

Review record

DATE REPORTED	09/03/2026	**REPORT NUMBER**	ONE-2026-129314
VERIFICATION CODE	R7017MG	**PUBLICATION STATUS**	Authorised
LAB DIRECTOR	Bhavrat Singh	**REVIEW DATE**	03 September 2026

HEAVY METALS ANALYSIS

REPORT NUMBER ONE-2026-129314
VERIFICATION CODE R7017MG
VERIFY AT UNITEDLABORATORIES.ORG

ICP-MS analytical results

Client and sample information

CLIENT	ONE AMINOS	**DATE REPORTED**	09/03/2026
PRODUCT NAME	KPV	**STRENGTH**	10 mg
BATCH / LOT	KPV10	**LABORATORY SAMPLE ID**	2026-129314
VERIFICATION CODE	R7017MG	**CONDITION**	Lyophilized powder

Test methodology

TEST PERFORMED	Elemental Impurities Analysis	**INSTRUMENT**	ICP-MS
SAMPLE PREPARATION	HNO3 / H2O2 matrix	**CALIBRATION**	Multi-element standard curve
INTERNAL STANDARD	Sc, Ge, In, Bi	**MATERIAL TYPE**	Research-use material

Elemental impurities results

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

Method suitability - spike recovery

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

Quality control and interpretation

Quality Control: Method Blank: Pass | CCV: Pass | Duplicate RPD: < 20%

The recorded results are below the stated limits, and the recovery and quality-control values meet their stated criteria. The underlying laboratory data and this report were reviewed and authorised by the Lab Director.

AUTHORISED BY BHAVRAT SINGH, LAB DIRECTOR - 03 SEPTEMBER 2026

BACTERIAL ENDOTOXIN ANALYSIS

REPORT NUMBER ONE-2026-129314
VERIFICATION CODE R7017MG
VERIFY AT UNITEDLABORATORIES.ORG

USP <85> - Kinetic Turbidimetric LAL

Client and sample information

CLIENT	ONE AMINOS	**DATE REPORTED**	09/03/2026
PRODUCT NAME	KPV	**STRENGTH**	10 mg
BATCH / LOT	KPV10	**LABORATORY SAMPLE ID**	2026-129314
VERIFICATION CODE	R7017MG	**CONDITION**	Lyophilized powder

Test methodology

TEST PERFORMED	Bacterial Endotoxin Test	**COMPENDIAL REFERENCE**	USP <85>
ASSAY TYPE	Kinetic turbidimetric LAL	**DETECTION WAVELENGTH**	660 nm
DETECTION RANGE	0.01-1.0 EU/mL	**ENDOTOXIN STANDARD**	E. coli O111:B4
DILUTION VOLUME	2.0 mL	**MATRIX**	LAL Reagent Water

Quantitative results

Parameter	Result
Endotoxin Level	< 0.20 EU/mL
Acceptance Limit	<= 0.5 EU/mL
Sample CV (%)	N/A
Spike CV (%)	N/A
Spike Recovery (%)	N/A
Recorded Determination	PASS (reported)

Controls

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	PASS (reported)
Negative Control	No signal	As expected	PASS (reported)

FINAL DETERMINATION: PASS - AUTHORISED BY LAB DIRECTOR

Interpretation and review

The recorded endotoxin result is below the stated limit using the kinetic turbidimetric LAL method at 660 nm. Sample CV, spike CV and spike recovery are recorded as N/A in the laboratory data; positive and negative controls passed. The underlying data and this report were reviewed and authorised by the Lab Director.

Laboratory review

Lab Director: Bhavrat Singh

Authorised signature: Bhavrat Singh

Review date: 03 September 2026

AUTHORISED BY BHAVRAT SINGH, LAB DIRECTOR - 03 SEPTEMBER 2026