



CERTIFICATE OF ANALYSIS

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SAMPLE IDENTIFICATION

PRODUCT NAME	KPV	CLIENT	Cryonic Labs
LABEL STRENGTH	10MG	LOT / BATCH NO.	FL-2478-E47
MOLECULAR FORMULA	C16H29N5O4	MANUFACTURE DATE	03 Jan 2026
MOLECULAR WEIGHT	355.44 g/mol	DATE OF ANALYSIS	06 Jan 2026
CAS NUMBER	67247-12-5	RETEST / EXPIRY	03 Jan 2028

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Appearance	Visual	White lyophilised powder	Conforms	PASS
Identification	MALDI-TOF MS	355.44 ± 1.0 amu	355.67 amu	PASS
Purity / Assay	HPLC-UV 220 nm	≥ 98.0 %	98.22 %	PASS
Retention Time	HPLC-UV 220 nm	Matches reference	15.32 min	PASS
Single Max Impurity	HPLC-UV 220 nm	≤ 1.00 %	0.94 %	PASS
Peptide Content	Nitrogen (Kjeldahl)	≥ 78.0 %	82.81 %	PASS
Water Content	Karl Fischer	≤ 6.0 %	1.4 %	PASS
Acetate Content	HPLC-IC	≤ 10.0 %	5.09 %	PASS
Bacterial Endotoxins	LAL Kinetic	< 0.50 EU/mg	0.03 EU/mg	PASS
Microbial Limits	USP <61>	< 100 CFU/g	< 10 CFU/g	PASS
Heavy Metals	ICP-MS	≤ 10 ppm	2.0 ppm	PASS
Sterility of Fill	USP <71>	No growth	No growth	PASS

CONCLUSION

The submitted sample of KPV (10MG), lot FL-2478-E47, was analysed under the methods listed above and conforms to all release specifications with a chromatographic purity of 98.22 %. Material is supplied for laboratory research use only. Not for human or veterinary use, and not for diagnostic or therapeutic application. Retain sample stored at -20 °C, protected from light.

98.22%
PURITY

Dr. M. Ellingsworth, Ph.D.

Laboratory Director, Freedom Laboratories LLC
Signed 06 Jan 2026 · Report No. COA-FL-2478-E47