Title:

Certificate of Analysis (CoA)

Date: 4/5/2026
Date Tested: 4/2/2026
Customer: Crush Research Supply Company
Testing material: KPV
Lot Number: CR-KPV10-2603-1
BT Sample ID: 005000039491534
Labeled Peptide Content/Potency: 10 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, white label, silver crimp, black plastic cap.
Labeled as: KPV
Manufacturer: N/A
Testing Purpose: FTIR and HPLC analysis for the identification, purity, potency and composition of a peptide product. It does not provide information on particulate matter, microbial contamination or presence of endotoxins.



Test	Method	Specification	Result
General Appearance	USP <630>	white powder	white powder
Mass	USP <41>	As recorded	55.9 mg 50.7 mg 57.4 mg
FTIR Identification and Composition Analysis	USP <197A>	Sample spectrum should confirm the content of peptide via characteristic bands	FTIR sample spectrum confirms the presence of KPV with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: ≥ 98 %	99.8 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 10 mg	8.2 mg (82.1 %) 7.3 mg (73 %) 9.9 mg (98.9 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	8.2 : 49.2 mg (1:6) 7.3 : 43.4 mg (1:5.9) 9.9 : 46 mg (1:4.7)

The results of the CoA relate only to the item(s) tested and applied to the sample as received.

Andrea Castro, AS
Scientist-II
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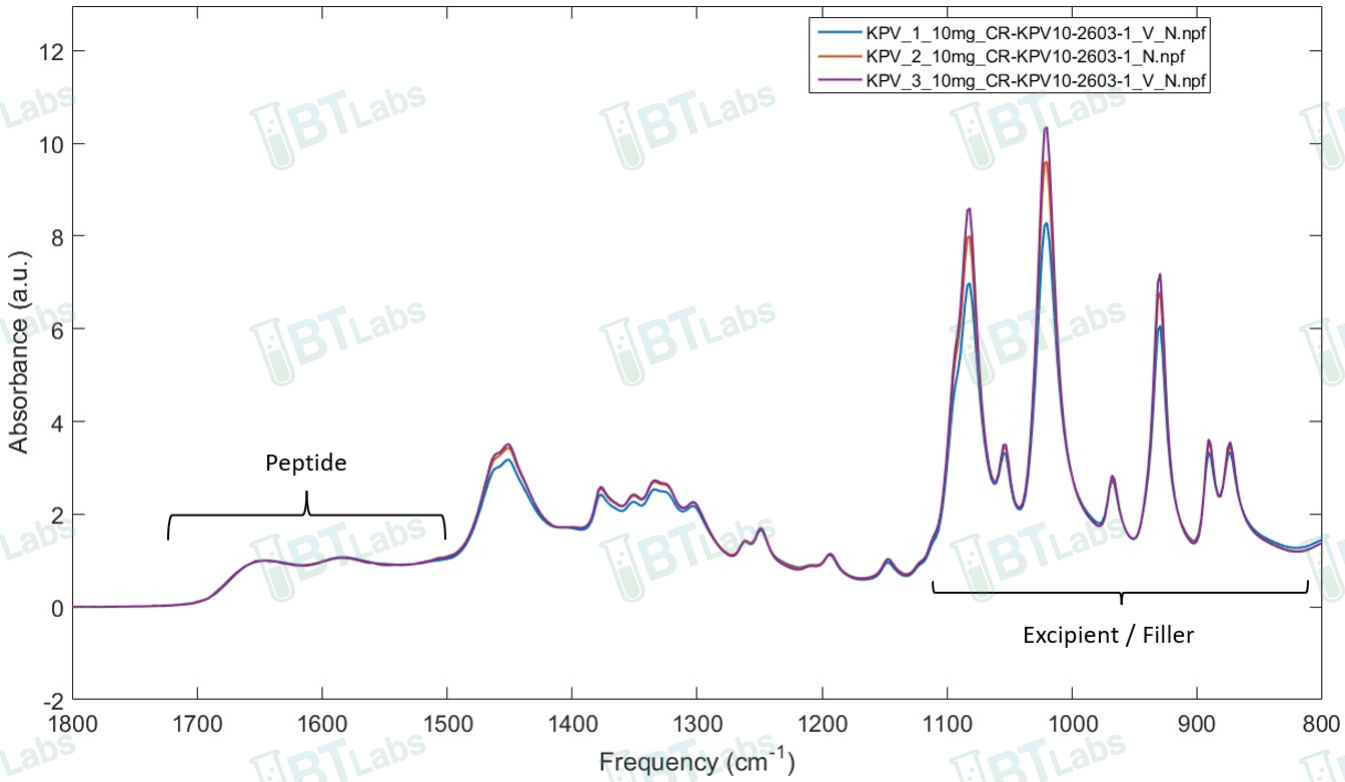
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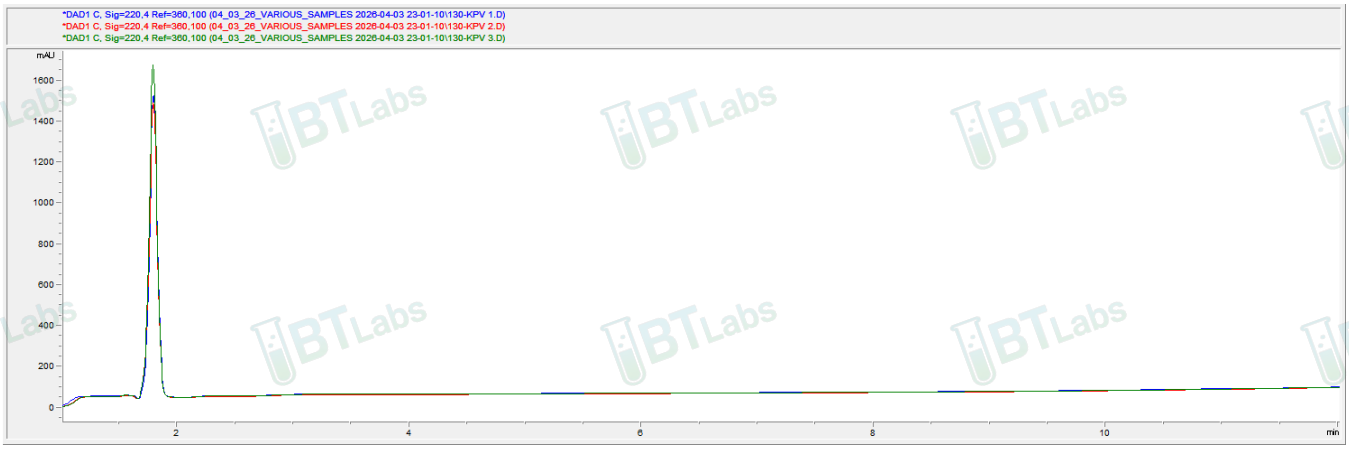
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FTIR ID and Composition Analysis: KPV Lot CR-KPV10-2603-1



HPLC Purity and Potency Assay @ 220 nm: KPV Lot CR-KPV10-2603-1



KPV Lot CR-KPV10-2603-1 @ 220 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	1.563	1311

Title:

Certificate of Analysis (CoA)

Bacterial Endotoxins Test (ABI- TEST 0012)



Date: 4/10/2026
Date Tested: 4/08/2026
Customer: Crush Research Supply Company
Testing material: KPV
Lot Number: CR-KPV10-2603-1
BT Sample ID: 005000039491618
Labeled Peptide Content/Potency: 10 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, white label, silver crimp, black plastic cap.
Labeled as: KPV
Manufacturer: N/A
Testing Purpose: (ABI-TEST 0012) test quantifies bacterial endotoxin levels to confirm that the product does not elicit pyrogenic reactions, maintaining patient safety and product integrity.

Test	Method	Specification	Result
Bacterial Endotoxins Test	USP <85>	40 EU/vial reconstituted	PASS

The results of the CoA relate only to the item(s) tested and applied to the sample as received.

Bacterial Endotoxins Test KPV Lot CR-KPV10-2603-1

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ, EU/mL)	Result
005000039491618	KPV	3	40 EU/vial	0.25	18.3 EU/vial

The sample passed a valid gel clot endotoxin test based on the type, mode of administration and dosage.

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