

ILS Laboratories

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KPV - 10mg

px1 Tested for: px1 research
PX1RESEARCH.COM

COA #: COA-2026-VT5GN_
Lot Number: PX1KPV10-0021
Accession #: ACC-2026-11963
Labeled Content: 10mg

Analysis Date: 07/31/2026
Appearance: Good
Sample Matrix: Lyophilized
Volume: 3mL
Date Received: 07/22/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: MTD46CHY

Method: Full QC Panel

Identity	Peptide Purity	Fentanyl Free
KPV	99.30%	

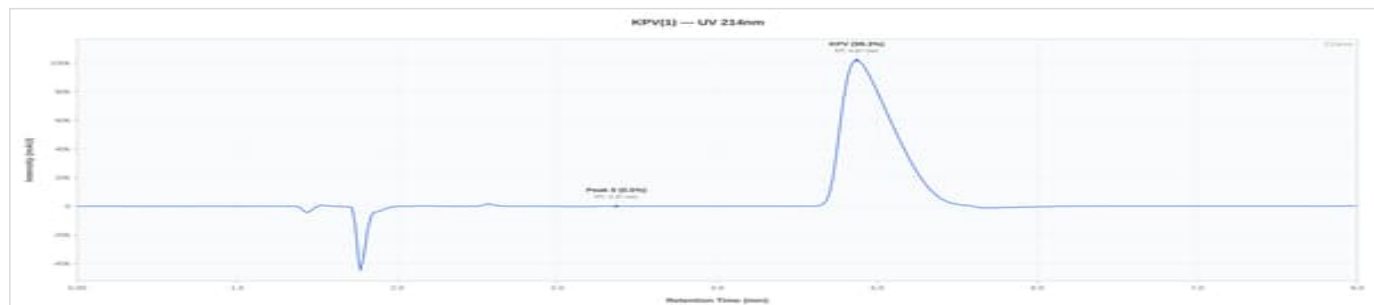
Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.30%	%	PASS
Net Peptide Content	Report Only	10.2	mg	N/A
Identity (HPLC-RTM)	KPV	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



KPV 10mg - PX1KPV10-0021

HPLC Chromatogram



KPV 10mg - PX1KPV10-0021: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.364	PASS
Cadmium (Cd)	NMT 0.5 ppm	0.0779	PASS
Lead (Pb)	NMT 1 ppm	0.1385	PASS
Mercury (Hg)	NMT 1.5 ppm	0.1291	PASS
Chromium (Cr)	NMT 10 ppm	0.637	PASS



Dr. Greg Kalyuzhny

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Lab Director
7/31/2026

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Access Code: MTD46CHY
Verify: portal.ils-lab.com/verify/Ty2kAsfSV49DDLlo
Issued: 7/31/2026

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	PASS

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	NMT 0.05 EU/mL	NMT 0.05 EU/mL	PASS

Acceptance criteria: NMT 0.05 EU/mL per client specification.

Notes & Methodology

- 1. Date Tested: 07/31/2026. Methods: Full QC Panel.
- 2. The sample was confirmed to be KPV by HPLC. Identification by chromatographic retention time comparison with a reference standard.
- 3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
- 4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
- 5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.




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