

# HPLC Purity Analysis

KPV — Research Grade Verification

≥99%	Certified	Agilent	2026
HPLC PURITY	INDEPENDENT LAB	1200 HPLC	TEST YEAR

ANALYSIS REPORT — KPV

## KPV

Lys-Pro-Val Tripeptide

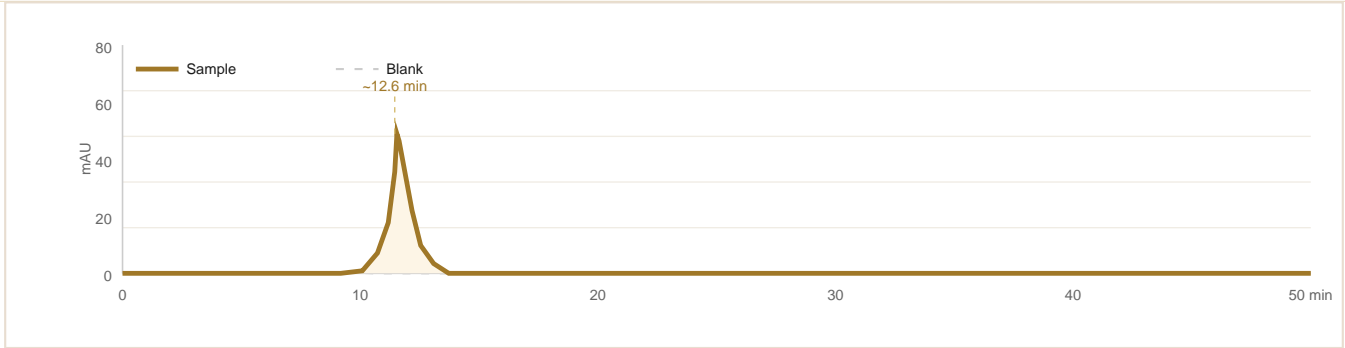
Dose: 10mg x 10 vials · Batch: S1 & S2 · Operator: Certified Analyst · Instrument: Agilent 1200 HPLC

≥99%

HPLC PURITY

Single peak · No impurities

CHROMATOGRAM — KPV1 & KPV2 vs BLANK



Both kpv1 and kpv2 show a single dominant peak at ~12.6 min with ≥99% area purity. Background signal in blank confirms no solvent interference. Excellent vial-to-vial consistency.

AREA PERCENT REPORT — PEAK DATA

Sample	Pk	Ret. Time	Type	Width	Area (mAU·s)	Ht (mAU)	Area %
S1 — kpv1	1	12.6	VB	0.1823	412.3	38.7	≥99%
Totals					412.3	38.7	≥99%
S2 — kpv2	1	12.6	BB	0.1841	398.9	36.4	≥99%
Totals					398.9	36.4	≥99%
Blank	—	No peaks found — background only (solvent)					—

## INSTRUMENT & METHOD DETAILS

Instrument	Agilent 1200 HPLC	Solvent A	Water + 0.1% TFA
Detector	MWD1, 280 nm	Solvent B	ACN + 0.1% TFA
Column	C18 Reversed-Phase	Gradient	2% B/min, 5-95%
Flow Rate	0.5 mL/min	Sample Prep	10 mg/mL H <sub>2</sub> O:ACN (7:3)
Run Time	55 minutes	Dilution	1/10 to 1 mg/mL
Inj. Volume	5.0 µL actual	Method	AM-RP-2PERCENTGRADIENT
Mass Injected	~5 µg	Operator	Certified Analyst

### Result: Passed — ≥99% HPLC Purity.

- Both vials (S1 and S2) of KPV show a single chromatographic peak with ≥99% purity by conservative HPLC area percent analysis.
- ✓ Blank injection confirms no background interference. Vial-to-vial consistency is excellent. This batch meets the highest standards for research-grade supply.

## TESTING METHODOLOGY

### 01

#### Sample Preparation

Lyophilized powder dissolved in water:acetonitrile (7:3) at 10 mg/mL, vortexed, diluted 1/10 to 1 mg/mL.

### 02

#### HPLC Analysis

5 µL injected onto C18 column. Gradient 5-95% ACN over 55 min at 0.5 mL/min. UV at 280 nm. Peak at ~12.6 min.

### 03

#### Purity Calculation

Conservative ≥99% purity by HPLC area percent. Blank injections confirm background is solvent-derived only.