

Certificate of Analysis (COA)

Product Name: KPV(Lysine-Proline-Valine)

Lot No.: 3132117

Sequence: Lys-Pro-Val

Modifications: C-terminal amidation

Long-term Storage Conditions: -20°C. Protect from light and moisture. After reconstitution, store at 2–8°C and avoid repeated freeze–thaw cycles. Use under aseptic handling conditions.

Report Date: 20 July 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	357.43 ±1.0 Da	356.5 Da
Purity (HPLC)	>98%	99.5%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Related Substances (HPLC)	Individual impurity ≤0.50%; Total impurities ≤2.00%	Conforms
Assay	95.0–105.0%	99.2%
Solubility	Freely soluble in water	Conforms
Acetic Acid Content	≤ 5000 ppm	810 ppm
TFA Content	≤ 50 ppm	7 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
E. Coli	Absent	N.D.
Salmonella	Absent	N.D.

Heavy Metals	≤10 ppm	<1 ppm
Total Aerobic Count	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05EU/mg