CERTIFICATION OF ANALYSIS		
KPV Powder (Synthetic)	CAS: 67727-97-3	
Product No.:800133	Batch No.: 24040104	
Date of Mfg:May 14, 2024	Date of Exp: May 13, 2026	
Sequence:Lys-Pro-Val		

Test	Specification	Result
Appearance	White or off-white powder	conforms
Solubility	Soluble in water and 1% acetate acid	conforms
HPLC	The principal peak in the chromatogram obtained with the test solution is similar in retention time to principal peak in the chromatogram obtained with the reference solution.	conforms
Amino acid analysis	Lys0.9-1.1Val0.9-1.1Pro0.9-1.1No more than the traces of the other amino acids are present.	Lys1.0Val1.0Pro1.0No more than the traces of the otheramino acids are present.
MS	342.4±1.0	342.2
Related Substances	Unspecified impurity for each impurity: NMT1.0%	0.9%
Purity(HPLC)	NLT 98%	98.8%
Acetic acid	NMT 30.0%	15.2%
Water Content(Karl Fischer)	NMT 7.0%	5.7%
Assay	95.0%-105.0% (anhydrous and acetic acid free subtance)	98.2%
Bacterial endotoxins	Less than 5IU/mg	conforms
Residual solvent Dichloromethane Acetonitrile N,N-Dimethylformamide	NMT 600 ppm NMT 410 ppm NMT 880 ppm	N.D 179 ppm N.D

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Storage: In an air tight container, protected from light

Temperature :Short Term:2-8 $^\circ \!\! C \;$; Long Term:below-10 $^\circ \!\! C \;$

Conclusion: the product complies with specification.

It is only supplied as chemical product.

Analysis :Janie.zhang Date :2024.05.23 Approved by : Christ.zheng Date :2024.05.23