

## Certificate of Analysis

### KPV Acetate

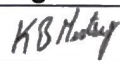
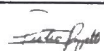
**Product Name** : KPV Acetate  
**Mfg. Date** : Jun 29, 2024  
**M.F.** :  $C_{18}H_{34}N_4O_6$   
**CAS No.** : 67727-97-3 (Free Base)  
**Sequence** : Lys-Pro-Val •  $CH_3COOH$

**Lot No.** : DL8229  
**Exp. Date** : Jun 28, 2027  
**M.W.** : 402.48  
**Batch Qty** : 318 g

TESTS	SPECIFICATIONS		RESULTS
Appearance	White or almost white crystalline powder		White crystalline powder
Solubility	Soluble in water		Conforms
Amino Acid Composition (AAA)	Lys	0.9 – 1.1	0.9
	Pro	0.9 – 1.1	1.0
	Val	0.9 – 1.1	1.0
Mass (MS)	$342.48 \pm 1.0$		343.23
Water (KF)	$\leq 10.0\%$		1.4%
Acetate Content (HPLC)	$\leq 20.0\%$		15.8%
Residual Solvent (GC)	Formaldehyde	Negative	Negative
Peptide Content (N%)	$\geq 80.0\%$		82.2%
Peptide Purity (HPLC)	$\geq 98.0\%$		99.1%
Related Substances (HPLC)	Total Impurities	$\leq 2.0\%$	0.9%
	Largest Single Impurity	$\leq 1.0\%$	0.5%
Assay (On Anhydrous and Acetic Acid-Free Basis) (HPLC) (CP2020)	95.0 – 105.0%		99.9%
Bacterial Endotoxins (USP2022)	$\leq 10$ EU/mg		< 10 EU/mg
Microbial Limits (USP2022)	Total Aerobic Microbial Count	$\leq 10^2$ CFU/g	< 20 CFU/g
	Total Yeast and Mold Count	$\leq 10^2$ CFU/g	< 20 CFU/g
	<i>E. coli</i>	Absent	Absent
Conclusion: The product is a synthetic peptide and meets the In-House specifications. Long Term Storage: Store in a sealed container at 2°C - 8°C in the fridge or in the freezer. Distributed by Darmerica.			

Note: Analytical results transcribed from the original COA provided by Chengdu Weihual Pharmaceutical Technology Co., Ltd. (China); Lot No. WHT-35/20240629/15.

**Based on the review of above information, the lot stands released.**

	Name	Title	Signature	Date
Prepared by	Kamlesh Mistry	Quality Manager		07/10/2024
Released by	Pietro Pazzetty	Quality Assistant		07/19/2024