



## Certificate of Analysis

### Ipamorelin Acetate

Product Name : Ipamorelin Acetate

Mfg. Date : Jun 04, 2023

M.F. :  $C_{38}H_{49}N_9O_5 \bullet xCH_3COOH$

CAS No. : 170851-70-4 (Free Base)

Sequence : Aib-His-D-2-Nal-D-Phe-Lys-NH<sub>2</sub> • xCH<sub>3</sub>COOH

Lot No. : DL7953

Exp. Date : Jun 03, 2026

M.W. : 711.853 + x60.05

Batch Qty : 1650 g

TESTS	SPECIFICATIONS		RESULTS
Appearance	White or almost white powder		White powder
Solubility	Soluble in water		Complies
Amino Acid Composition (HPLC)	Aib	0.9 – 1.1	1.0
	His	0.9 – 1.1	0.9
	Nal	0.9 – 1.1	1.0
	Phe	0.9 – 1.1	1.0
	Lys	0.9 – 1.1	0.9
Mass (MS)	711.85 ± 1		711.26
Water Content (KF)	≤ 5.0%		4.0%
Acetic Acid (HPLC)	≤ 15.0%		14.2%
Related Substances (HPLC)	Total Impurities	≤ 2.0%	0.6%
	Largest Single Impurity	≤ 1.0%	0.3%
Peptide Purity (HPLC)	≥ 98.0%		99.4%
Assay (Anhydrous, Acetic Acid Free Basis) (HPLC) (CP2020)	95.0% - 103.0%		99.2%
Peptide Content (HPLC)	≥ 80.0%		81.8%
Organic Solvent Residue (HPLC)	Acetonitrile	≤ 0.041%	< 0.041%
	Dichloromethane	≤ 0.060%	< 0.060%
	N,N-Dimethylformamide	≤ 0.088%	< 0.088%
Bacterial Endotoxins (USP2022)	≤ 10 EU/mg		< 10 EU/mg
Microbial Limits (USP2022)	Total Aerobic Microbial Count	≤ 10 <sup>2</sup> CFU/g	< 20 CFU/g
	Total Yeast and Mold Count	≤ 10 <sup>2</sup> CFU/g	< 20 CFU/g
	E. coli	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 a fridge or freezer. Distributed by Darmerica.			

Note: Analytical results transcribed from the original COA provided by Hangzhou Jiadexin Biological Technology Co., Ltd. (China). Lot No. 2023060402.

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

	Name	Title	Signature	Date
Prepared by	Kamlesh Mistry	Quality Manager		01/23/2024
Released by	Pietro Pazzetty	Quality Assistant		02/12/2024