



Certificate of Analysis

LL-37 Acetate

Product Name : LL-37 Acetate
Mfg. Date : May 11, 2023
M.F. : C₂₀₇H₃₄₄N₆₀O₅₅
CAS no. : 154947-66-7 (Free Base)
Sequence : H-Leu-Leu-Gly-Asp-Phe-Phe-Arg-Lys-Ser-Lys-Glu-Lys-Ile-Gly-Lys-Glu-Phe-Lys-Arg-Ile-Val-Gln-Arg-Ile-Lys-Asp-Phe-Leu-Arg-Asn-Leu-Val-Pro-Arg-Thr-Glu-Ser-OH·CH₃COOH

Lot No. : DL7560
Exp. Date : May 10, 2026
M.W. : 4553.3
Batch Qty : 210 g

TESTS	SPECIFICATIONS		RESULTS
Appearance	White or almost white powder		White powder
Solubility	Soluble in water		Complies
Amino Acid Composition (HPLC)	Leu	3.6 – 4.4	4.0
	Gly	1.8 – 2.2	1.9
	Phe	3.6 – 4.4	4.1
	Asp	2.7 – 3.3	2.9
	Lys	5.4 – 6.6	6.1
	Ser	1.8 – 2.2	1.9
	Glu	3.6 – 4.4	4.0
	Val	1.8 – 2.2	2.1
	Ile	2.7 – 3.3	3.0
	Pro	0.8 – 1.2	1.1
	Arg	4.5 – 5.5	5.1
	Thr	0.8 – 1.2	1.1
Mass (MS)	4493.26 ± 2		4492.38
Water Content (KF)	≤ 8.0%		5.1%
Acetic Acid Content (HPLC)	≤ 15.0%		7.7%
Peptide Purity (HPLC) (CP2020)	≥ 98.0%		99.6%
Related Substances (HPLC)	Single largest impurity	≤ 1.0%	0.4%
	Total impurities	≤ 2.0%	0.4%
Bacterial Endotoxins (USP2022)	≤ 10 EU/mg		< 10 EU/mg
Microbial Limit (USP2022)	Total Aerobic and Microbial Count	≤ 10 ² CFU/g	< 20 CFU/g
	Total Yeast and Mold Count	≤ 10 ² 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. 2023051103.

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

	Name	Title	Signature	Date
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Released by	Alianny Holguin	Quality Assistant	<i>Alianny Holguin</i>	08/21/2023