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Certification of Analysis

Product Name	Pentapeptide-3		
CAS. No.	725232-44-0	Batch No.	YSF46240301
Molecular Formula	C ₂₁ H ₃₇ N ₉ O ₅	Molecular Weight	495.58
Cat. No	QT-1017	Manufacturing Date	03/18/2024
Storage	2 - 8°C	Retest Date	03/18/2026
Sequence	H-Gly-Pro-Arg-Pro-Ala-NH ₂		
TEST		SPECIFICATION	RESULT
Appearance		White powder or granule	Conformed
Solubility		Soluble in water	Conformed
Solution Clarity		Clear, colorless	Conformed
Molecular Ion Mass		495.58 ± 1	495.11
Amino Acid Composition		Gly: 0.90~1.10 Pro: 1.80~2.20 Arg: 0.90~1.10 Ala: 0.90~1.10	Conformed
PH		3.0~6.0	4.8
Peptide Purity (By HPLC)		≥ 95.0%	99.43%
Acetic Acid (By HPLC)		≤ 15.0%	1.36%
Water Content (Karl Fischer)		≤ 8.0%	1.55%
Bacterial Endotoxins		≤ 300 EU/mg	Conformed
Microbial Counts			
Total bacterial count		≤ 200CFU/g	60CFU/g
Escherichia Coli		N.D.	Conformed
Pseudomonas Aeruginosa		N.D.	Conformed
Staphylococcus Aureus		N.D.	Conform
Conclusion: The test results meet the required specifications, and the item is qualified.			

Storage Recommendation:

- Short-Term Storage: Store at 2–8°C in a cool, dry place.
- Long-Term Storage: Store at -20°C to -15°C.
- General Conditions: Protect from light and keep the packaging airtight when not in use.

Tested By Jane Merrill, Checked By Ashley Bennet, Audited By Liu Jing

Qualitide Quality Control Department Date: **2026-03-18**