



TECHNOLOGY & INNOVATION • HIGH PURITY SYNTHESIS • ANALYTICAL SERVICES

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CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Product:	Tirzep Sequence Dual	Batch No.:	AL-TRZPD2508
MF.:	$C_{225}H_{348}N_{48}O_{68}$	Batch Quantity:	5g
MW.:	4813.45	Manufacturing Date:	29/08/2026
CAS No.:	2023788-19-2	Expiry Date:	28/08/2029
Storage:	Keep in tight container, protected from light, store at -20°C	Appearance:	White or almost white powder or loose solid
Sequence:	Y-Aib-E-G-T-F-T-S-D-Y-S-I-Aib-L-D-K-I-A-Q-K(C20diacid-yGlu-(AEEA)2-A-F-V-Q-W-L-I-A-G-G-P-S-S-G-A-P-P-P-S-NH2		

QUALITY CONTROL TEST RESULTS

#	TEST ITEM	SPECIFICATION	RESULT
1	Appearance	White or almost white powder or loose solid	Conforms
2	Related Substance (Total Impurities)	Total Impurities: $\leq 2.0\%$ / Maximum single impurity: $\leq 1.0\%$	0.47% / 0.20%
3	Identification by MS	4813.45 ± 4	4812.55
4	Water Content (K.F)	$\leq 5.0\%$	2.9%
5	Sodium Ion	$\leq 3.0\%$	1.3%
6	Peptide Purity (By HPLC)	$\geq 98.0\%$	99.53%
7	pH	6.0 - 8.0	7.80
8	Solubility	5mg/ml in water	Conforms
9	Bacterial Endotoxins	$\leq 10\text{EU/mg}$	Conforms
10	Assay	95.0% ~ 105.0%	99.60%
11	Residual solvent	Acetonitrile $\leq 410\text{ppm}$, Methylene chloride $\leq 600\text{ppm}$, N,N-Dimethylformamide $\leq 880\text{ppm}$, Isopropyl ether $\leq 5000\text{ppm}$, Methanol $\leq 3000\text{ppm}$, Triethylamine $\leq 320\text{ppm}$, Tert-butyl methyl ether $\leq 5000\text{ppm}$	All N.D.
12	Acid group Ions	Trifluoroacetate ion $\leq 1000\text{ppm}$, Phosphate ion $\leq 1000\text{ppm}$, Chloride ion $\leq 1000\text{ppm}$, Acetic acid $\leq 1000\text{ppm}$	All N.D.
13	Escherichia Coli	Not detected	Conforms
14	Pseudomonas Aeruginosa	Not detected	Conforms
15	Staphylococcus Aureus	Not detected	Conforms
16	Salmonella	Not detected	Conforms
17	Microbial limits	TAMC $\leq 1000\text{cfu/g}$ / TYMC $\leq 100\text{cfu/g}$	Conforms
18	High molecular protein	$\leq 0.50\%$	N.D.
19	Peptide content	$\geq 80.0\%$	95.3%

Tested By: Technical Analyst
Audited By: Quality Assurance Manager
Date: 29/08/2026

AlloLabs Quality Control Department

(This peptide is only for lab research, not for human use)

