

AGE|RECODE®
CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Product Name:	Tirzepatide 60 mg
Client Name / Lot No.:	Cesar Medina - Changan District Sheng Peptide
Sequence:	Tyr-(Aib)-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-(Aib)-Leu-Asp-Lys-Ile-Ala-Gln-(diacid-C20-gamma-Glu-(AEEA)2-Lys)-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH ₂
Dissolution Condition:	100% H ₂ O
Length:	39 AA
Molecular Weight:	4813.5 g/mol

CHROMATOGRAM DATA

Peak #	Retention Time	Area %
1	4.992	99.915
2	8.555	0.085

ANALYTICAL TEST RESULTS

Test Item	Specification	Result
Strength	60.00 mg	63.69 mg
Appearance	White to off-white lyophilized powder	Conforms
Purity	≥ 98.0%	99.9%
pH Value	6.0 – 8.0	7.0
Impurity (Single)	≤ 1.0%	0.09%
Impurity (Total)	≤ 2.0%	0.1%

TEST PARAMETERS

Parameter	Value
Pump A:	0.1% trifluoroacetic in 100% water
Pump B:	0.1% trifluoroacetic in 100% acetonitrile
Total Flow:	1.0 mL/min
Wavelength:	220 nm

Analytical Column Type:	Agilent ZORBAX StableBond 5µm C18 (4.6 x 250 mm x 5 µm)
Dissolution Method:	100% H ₂ O
Injection Volume:	20 µL

CONCLUSION: QUALIFIED — All specifications met

DISCUSSION

One 3 mL vial was received by customer on 11/13/2024. The vial contained a white lyophilized powder of unknown substance thought to be tirzepatide 60 mg. The vial has a blue cap. The sample was analysed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 99.9% tirzepatide (63.69 mg), and the rest are impurities of minor significance.

STORAGE CONDITIONS

Store lyophilized peptide in sealed vials. Recommended storage: 2–8°C. Protect from light and moisture. Reconstituted product should be used promptly or stored at 2–8°C.