KOVERA LABS

BACTERIAL ENDOTOXIN ANALYSIS

(Kinetic Chromogenic LAL, USP <85>)

Sample ID: **KVR-2026-8E4334**

CLIENT & SAMPLE INFORMATION

Client	Zen Aminos	**Certified Date**	10/01/2026
Product Name	Tirzepatide	**Strength**	20 mg
Lot / Batch	zap-2t205	**Condition**	Lyophilized

This Certificate of Analysis certifies that the sample listed herein was tested for bacterial endotoxin using a kinetic chromogenic LAL assay in accordance with USP <85> Bacterial Endotoxins Test.

TEST METHODOLOGY

Test Performed	Quantitative Bacterial Endotoxin Test	**Compendial Ref**	USP <85>
Assay Type	Kinetic Turbidimetric	**Detection λ**	660 nm
Detection Range	0.01 - 1.0 EU/mL	**Endotoxin Std**	E. coli O111:B4
Dilution Vol	2.0 mL	**Matrix**	LAL Reagent Water

QUANTITATIVE RESULTS

Parameter	Result
Endotoxin Level	< 0.08 EU/mL
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	2.7%
Spike CV (%)	3.3%
Spike Recovery (%)	87%
Final Determination	**PASS**

CONTROLS

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	Pass
Negative Control	No signal	As expected	Pass

INTERPRETATION

Endotoxin content was quantitatively determined using a kinetic chromogenic LAL assay in accordance with USP <85>. Result reported as below quantitation threshold. The measured endotoxin level meets the specified acceptance criteria. The sample passes the endotoxin limit test.

AUTHORIZATION

REVIEWED BY

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Lab Director