Certificate of Analysis

ILS Laboratories
8222 Vickers St, Suite 106, San Diego, CA 92111
(619) 329-3999 | ils-lab.com

Tirzepatide - 30mg

Tested for: Voltera Sciences
www.VolteraSciences.com

PASS

COA #:	**COA-2026-954316**	Analysis Date:	**07/02/2026**
Lot Number:	**T30-07082026**	Appearance:	**Good**
Accession #:	**ACC-2026-5919**	Sample Matrix:	**Lyophilized**
Labeled Content:	**30mg**	Volume:	**3mL**
		Date Received:	**06/20/2026**

Scan to verify authenticity at ils-lab.com
Access Code: XWV7D8LS

Method: **Full QC Panel**

Identity
Tirzepatide

Peptide Purity
99.79%

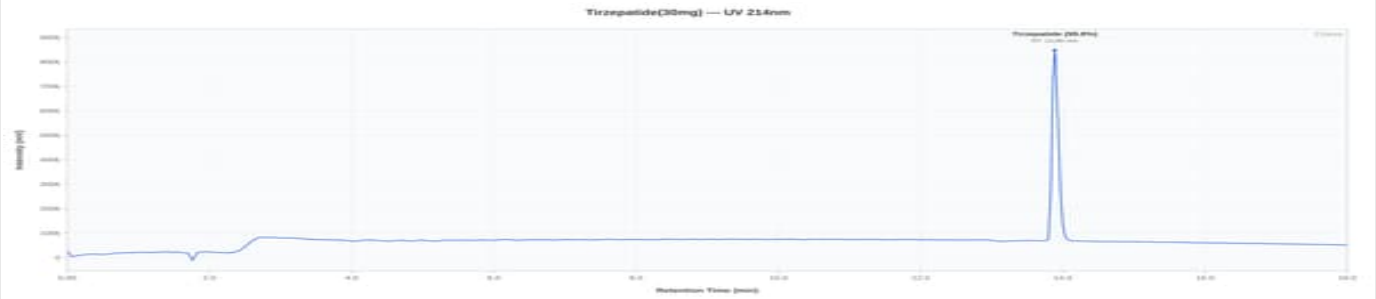
Fentanyl Free

Tirzepatide 30mg - T30-07082026

Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.79%**	%	**PASS**
Net Peptide Content	Report Only	**31.82**	mg	N/A
Identity (HPLC-RTM)	Tirzepatide	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Dedicated V0

HPLC Conformity Testing Results (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.79%	31.82 mg	Confirmed	**PASS**
Conformity V1	99.67%	31.49 mg	Confirmed	**PASS**
Mean	**99.73%**	**31.66 mg**	—	—
Std Dev	**0.0600%**	**0.1650 mg**	—	—

Dr. Greg Kalyuzhny
Lab Director
7/2/2026

COA #: **COA-2026-954316**
Access Code: **XWV7D8LS**
Verify: portal.ils-lab.com/verify/iiTYpmrNXJjjwD8y
Issued: 7/2/2026

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Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.610	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	*Not Detected*	**PASS**
Lead (Pb)	NMT 1.0 ppm	0.590	**PASS**
Mercury (Hg)	NMT 1.5 ppm	0.436	**PASS**
Chromium (Cr)	NMT 10.0 ppm	*Not Detected*	**PASS**

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	**No Growth**	**PASS**

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	**0.121 EU/mL**	**Reported**

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 07/25/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be Tirzepatide by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.
6. Chromatogram shown is representative: Dedicated V0 (99.79% purity, closest to batch mean of 99.73%).

Dr. Greg Kalyuzhny
Lab Director
7/2/2026

COA #: **COA-2026-954316**
Access Code: **XWV7D8LS**
Verify: portal.ils-lab.com/verify/iiTYpmrNXJjjwD8y
Issued: 7/2/2026

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KOVERA LABS

CERTIFICATE OF ANALYSIS
REPORT # KVR-2026-E9A948

Client: Voltera

Certified: 05/17/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

SAMPLE INFORMATION

Product	Tirzepatide	**Form**	Lyophilized powder
Batch	VLSTR.05.17.2026	**Labeled Qty**	10 mg
Mol. Formula	C39H75N7O10	**CAS Number**	214047-00-4
Cap Color	Red	**Crimp Color**	Silver

TEST RESULTS

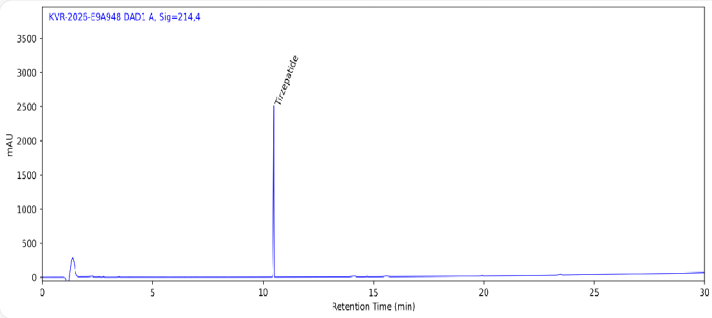
	REFERENCE STANDARD	RESULT	
Purity	(>98%)	99.961%	✓
Net Content	(10mg ± 10%)	11.81 mg	✓
Identity Confirmation (LC-MS)	(Tirzepatide)	Tirzepatide	✓
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS	✓
Microbial Sterility Screen	(No Growth)	No Growth	✓

HEAVY METAL SCREENING

Analyte	Result	Status
Arsenic (As)	Negative	✓
Cadmium (Cd)	Negative	✓
Lead (Pb)	Negative	✓
Mercury (Hg)	Negative	✓

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm



Lemar Arghandiwal
Lab Director

Report#: KVR-2026-E9A948
Access Code: 0FAPCUB

koveralabs.com/verify

KOVERA LABS

CERTIFICATE OF ANALYSIS
REPORT # KVR-2026-34C856

Client: Voltera

Certified: 05/17/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

SAMPLE INFORMATION

Product	Tirzepatide	**Form**	Lyophilized powder
Batch	VLSTR.05.17.2026	**Labeled Qty**	20 mg
Mol. Formula	C225H348N48O68	**CAS Number**	2023788-19-2
Cap Color	Yellow	**Crimp Color**	Silver

TEST RESULTS

	REFERENCE STANDARD	RESULT	
Batch Avg Purity	(>98%)	99.784%	✓
Batch Avg Net Content	(20mg ± 10%)	24.16 mg	✓
Identity Confirmation (LC-MS)	(Tirzepatide)	Tirzepatide	✓
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS	✓
Microbial Sterility Screen	(No Growth)	No Growth	✓

HEAVY METAL SCREENING

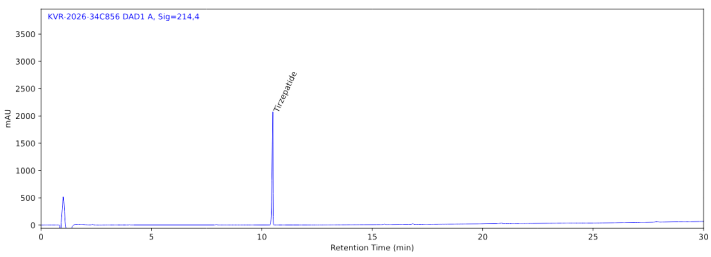
Analyte	Result	Status
Arsenic (As)	Negative	✓
Cadmium (Cd)	Negative	✓
Lead (Pb)	Negative	✓
Mercury (Hg)	Negative	✓

BATCH CONFORMITY RESULTS

Vial	Purity (%)	Net Content (mg)
Vial 1	99.827	24.13
Vial 2	99.741	24.19
Batch Average	**99.784%**	**24.16 mg**

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm



Lemar Arghandiwal
Lab Director

koveralabs.com/verify

Report#: KVR-2026-34C856
Access Code: ZZN3EAO

Certificate of Analysis

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8222 Vickers St, Suite 106, San Diego, CA 92111
(619) 329-3999 | ils-lab.com

VLS-2 TRZ - 30mg

PASS

Tested for: Voltera Sciences
www.VolteraSciences.com

COA #:	**COA-2026-412385**	Method:	**Full QC Panel**
Lot Number:	**VLS2T30.05.02.2026**	Analysis Date:	**05/05/2026**
Accession #:	**ACC-2026-1657**	Appearance:	**Good**
Concentration:	**30mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/01/2026**

Scan to verify authenticity at ils-lab.com

Identity	Purity
VLS-2 TRZ	**99.93%**

VLS-2 TRZ 30mg - VLS2T30.05.02.2026

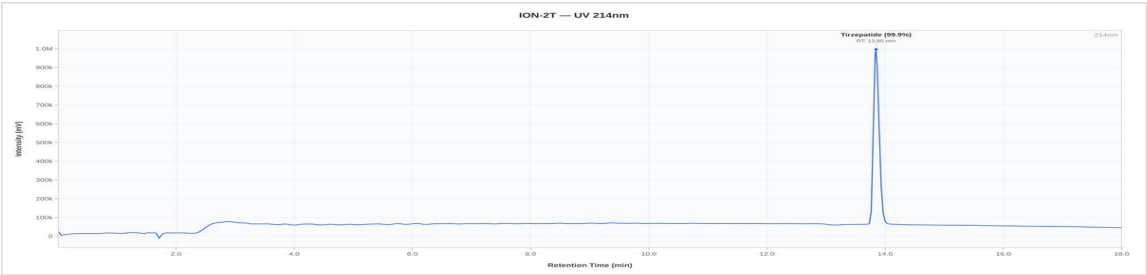
Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	**99.93%**	%	PASS
Net Peptide Content	Report Only	**32.16**	mg	N/A
Identity (ID)	tirzepatide	**Confirmed**	-	PASS

Heavy Metals (ICP-MS)

Analyte	Specification	Result	Unit	Status
Heavy Metals				
Arsenic (As)	<= 1.5 ppm	**Not Detected**	ppm	PASS
Cadmium (Cd)	<= 0.5 ppm	**Not Detected**	ppm	PASS
Lead (Pb)	<= 1 ppm	**Not Detected**	ppm	PASS
Mercury (Hg)	<= 1.5 ppm	**0.0907 ppm**	ppm	PASS
Chromium (Cr)	<= 10 ppm	**0.1227 ppm**	ppm	PASS

HPLC Chromatogram



Representative chromatogram, Dedicated V0 (99.93% purity, closest to batch mean of 99.93%)

Dr. Greg Kalyuzhny
Lab Director
5/12/2026

COA #: **COA-2026-412385**
Access Code: **FW6X9DL2**
Verify: portal.ils-lab.com/verify/2Rquqs7z6f3pOEcV
Issued: 5/12/2026

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Certificate of Analysis

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VLS-2 TRZ - 30mg

PASS

Tested for: Voltera Sciences
www.VolteraSciences.com

COA #:	**COA-2026-412385**	Method:	**Full QC Panel**
Lot Number:	**VLS2T30.05.02.2026**	Analysis Date:	**05/05/2026**
Accession #:	**ACC-2026-1657**	Appearance:	**Good**
Concentration:	**30mg**	Volume:	**3mL**
Sample Matrix:	**Lyophilized**	Received:	**05/01/2026**

Scan to verify authenticity at ils-lab.com

HPLC Conformity Testing Results (2 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.93%	32.16 mg	Confirmed	**PASS**
Conformity V1	99.92%	30.99 mg	Confirmed	**PASS**
Mean	**99.93%**	**31.57 mg**	—	—
Std Dev	**0.0050%**	**0.5850 mg**	—	—

Sterility Testing (PCR)

Test	Specification	Result	Unit	Status
Sterility (PCR)	No Growth	**No Growth**	-	**PASS**

Endotoxin Testing (USP <85>)

Test	Specification	Result	Unit	Status
Endotoxin (USP <85>)	< 0.25 EU/mL	**0.077 EU/mL**		**PASS**

Notes & Methodology

1. Date Tested: 05/12/2026. Methods: Purity & Quant (HPLC); Heavy Metals (ICP-MS).
2. The sample was confirmed to be VLS-2 TRZ by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Chromatogram shown is representative: Dedicated V0 (99.93% purity, closest to batch mean of 99.93%).

Dr. Greg Kalyuzhny
Lab Director
5/12/2026

COA #: **COA-2026-412385**
Access Code: **FW6X9DL2**
Verify: portal.ils-lab.com/verify/2Rquqs7z6f3pOEcV
Issued: 5/12/2026

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Certificate of Analysis

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VLS-2TRZ60

Tested for: Voltera Sciences
www.volterasciences.com

PASS

Scan to verify authenticity at ils-lab.com
Access Code: UC5KT74A

COA #:	**COA-2026-412742**	Method:	**Full QC Panel**
Lot Number:	**TR60.05.28.26**	Analysis Date:	**06/05/2026**
Accession #:	**ACC-2026-3698**	Appearance:	**Good**
		Date Received:	**06/01/2026**

Identity
VLS-2TRZ60

Peptide Purity
99.03%

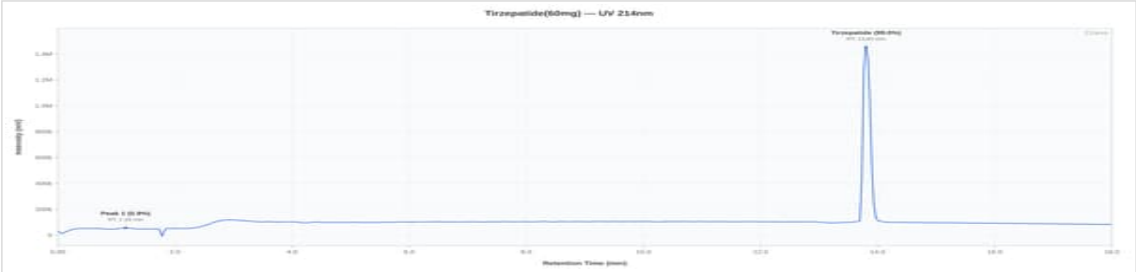
Fentanyl Free

VLS-2TRZ60 - TR60.05.28.26

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.03%**	%	**PASS**
Net Peptide Content	Report Only	**62.25**	mg	N/A
Identity (HPLC-RTM)	Tirzepatide	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



VLS-2TRZ60 - TR60.05.28.26: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	*Not Detected*	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	*Not Detected*	**PASS**
Chromium (Cr)	NMT 10 ppm	*Not Detected*	**PASS**
Mercury (Hg)	NMT 1.5 ppm	*Not Detected*	**PASS**
Lead (Pb)	NMT 1 ppm	*Not Detected*	**PASS**

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	**No Growth**	**PASS**

ilac-MRA
PJLA Testing
Accreditation No. 59423

Dr. Greg Kalyuzhny
Lab Director
6/7/2026

COA #: **COA-2026-412742**
Access Code: **UC5KT74A**
Verify: portal.ils-lab.com/verify/ag_RZg3EXAUZm65G
Issued: 6/7/2026

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Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	**0.12 EU/mL**	**Reported**

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 06/07/2026. Methods: Full QC Panel.
2. The sample was confirmed to be VLS-2TRZ60 by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.

Dr. Greg Kalyuzhny
Lab Director
6/7/2026

COA #: **COA-2026-412742**
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