Certificate of Analysis

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

ZC-TZ - 30mg

Tested for: Zc Labs
https://zclabs.shop

PASS

Scan to verify authenticity at ils-lab.com
Access Code: MXD4RPZY

COA #:	**COA-2026-CEJ7VB**	Analysis Date:	**10/16/2026**
Lot Number:	**ZC-ZTZ30-261012**	Sample Matrix:	**Lyophilized**
Accession #:	**ACC-2026-22996**	Volume:	**3mL**
Labeled Content:	**30mg**	Date Received:	**10/13/2026**

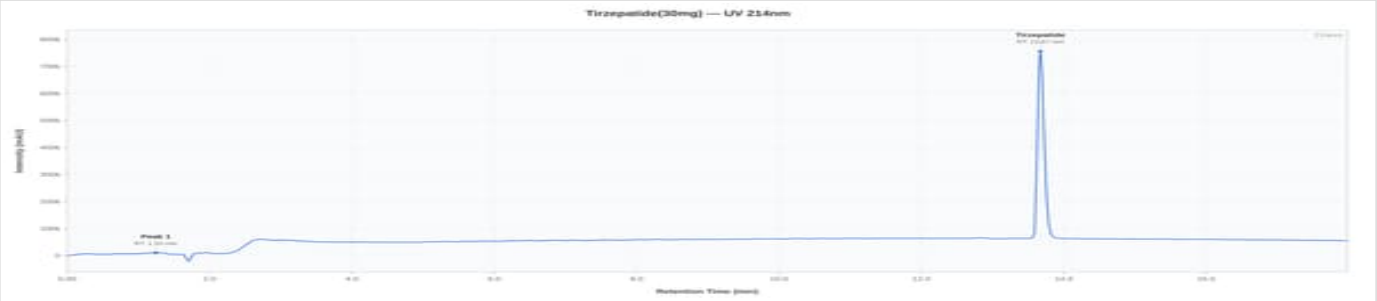
Method: **Full QC Panel**

Identity	Peptide Purity	
ZC-TZ	99.24%	Fentanyl Free

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.24%**	%	**PASS**
Net Peptide Content	Report Only	**30.58**	mg	N/A
Identity (HPLC-RTM)	T2	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



ZC-TZ 30mg - ZC-ZTZ30-261012: UV Chromatogram

Additional Analyses

Analyte	Specification	Result	Unit	Status
Product pH Potentiometric pH (USP <791>)	Report Only	**7.59**		Report Only
Solubility Analysis Visual Solubility Assessment (USP general notices descriptive terms)	Report Only	**Soluble** Solvent: Nuclease-Free Water Concentration: 10 mg/mL		Report Only
Closure Integrity Vacuum Leak Test (USP <1207>)	No leakage observed	**Pass**		Report Only

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**
Lead (Pb)	NMT 1.0 ppm	*Not Detected*	**PASS**
Mercury (Hg)	NMT 1.5 ppm	*Not Detected*	**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>)	< 0.25 EU/mL	**0.074 EU/mL**	**PASS**

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.

Certificate Change History — **ILS QA**

Oct 27, 2026, 6:10 PM PDT

The product name, batch number, or identity label on this certificate was updated. Laboratory results were not changed.

Notes & Methodology

1. Date Tested: 10/16/2026. Methods: Full QC Panel.
2. The sample was confirmed to be ZC-TZ 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 chromogenic 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. Accreditation Scope: ILS Laboratories maintains ISO/IEC 17025 accreditation for activities listed in its published PJLA scope. Peptide testing reported on this certificate is performed for Research Use Only.
7. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

ILS LABS

Issued by ILS Laboratories
(619) 329-3999
ils-lab.com

Dr. Greg Kalyuzhny
Lab Director
10/16/2026

COA #: **COA-2026-CEJ7VB**
Access Code: **MXD4RPZY**
Verify: portal.ils-lab.com/verify/2OdGPilA8bdZMtsj
Issued: 10/16/2026

ILS Laboratories | 8222 Vickers St, Suite 106, San Diego, CA 92111 | (619) 329-3999 | ils-lab.com
This certificate relates only to the sample(s) tested.