# Certificate of Analysis

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

## Tirz - 15mg

**Tested for: Evolve BioPep LLC**
www.evolvebiopep.com

**PASS**

| | | | |
|---|---|---|---|
| COA #: | **COA-2026-CB9GYE** | Analysis Date: | **08/21/2026** |
| Lot Number: | **ET-260518-H15** | Appearance: | **Good** |
| Labeled Content: | **15mg** | Volume: | **3mL** |
| Volume: | **3mL** | Date Received: | **07/21/2026** |

Method: **Full QC Panel**

Scan to verify authenticity at ils-lab.com
**Access Code: 9WVWJAZY**

| Identity | Peptide Purity | |
|---|---|---|
| **Tirz** | **99.69%** | **Fentanyl Free** |

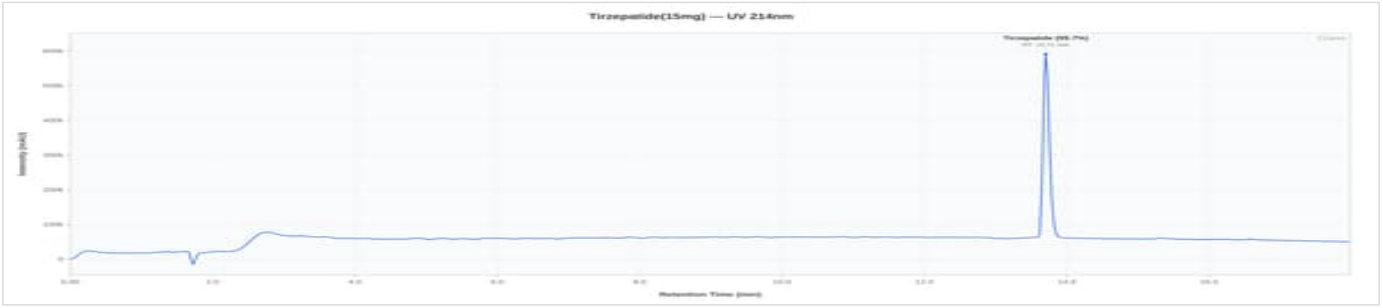


*Tirz 15mg - ET-260518-H15*

### Full QC Panel

| Analyte | Specification | Result | Unit | Status |
|---|---|---|---|---|
| **Peptide Purity (HPLC)** | >= 95.0% | **99.69%** | % | **PASS** |
| **Net Peptide Content** | Report Only | **15.63** | mg | N/A |
| **Identity (HPLC-RTM)** | Tirzepatide | **Confirmed** | - | **PASS** |
| **Fentanyl Screen** | Immunoassay, 50 ng/mL cutoff | **Not Detected** | - | **PASS** |

### HPLC Chromatogram



*Tirz 15mg - ET-260518-H15: 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** |
| **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** |

**Dr. Greg Kalyuzhny**
Lab Director
8/21/2026

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## 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>)** | NMT 5 EU/mL | **1.024 EU/mL** | **PASS** |
| *Acceptance criteria: NMT 5 EU/mL per client specification.* | | | |

### Notes & Methodology

1. Date Tested: 08/21/2026. Methods: Full QC Panel.
2. The sample was confirmed to be Tirz 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. 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.

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