# Certificate of Analysis

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

## Retatrutide - 20mg

**Tested for: px1 research**
PX1RESEARCH.COM

**PASS**

Scan to verify authenticity at ils-lab.com
**Access Code: BFAPNFV7**

| | | | |
|---|---|---|---|
| COA #: | **COA-2026-LC4V1-** | Analysis Date: | **07/31/2026** |
| Lot Number: | **PX1R20-0021** | Appearance: | **Good** |
| Accession #: | **ACC-2026-11957** | Sample Matrix: | **Lyophilized** |
| Labeled Content: | **20mg** | Volume: | **3mL** |
| | | Date Received: | **07/22/2026** |

Method: **Full QC Panel**

| Identity | Peptide Purity | |
|---|---|---|
| **Retatrutide** | **99.88%** | **Fentanyl Free** |

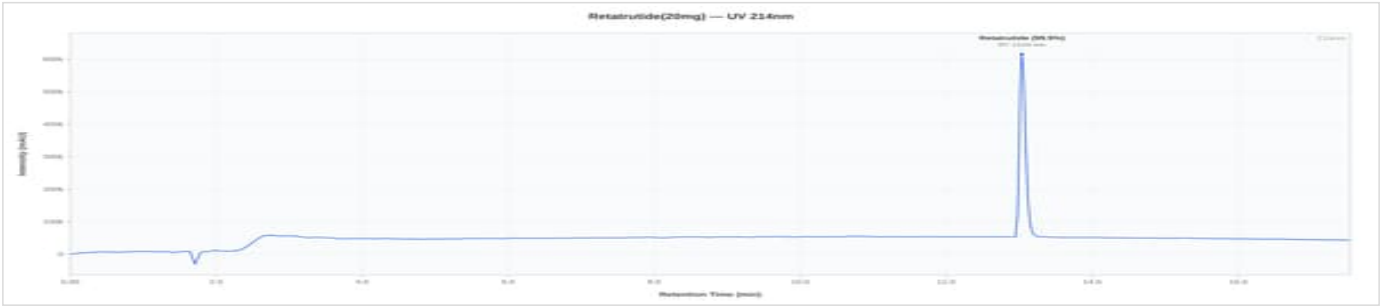


*Retatrutide 20mg - PX1R20-0021*

### Full QC Panel

| Analyte | Specification | Result | Unit | Status |
|---|---|---|---|---|
| **Peptide Purity (HPLC)** | >= 95.0% | **99.88%** | % | **PASS** |
| **Net Peptide Content** | Report Only | **20.85** | mg | N/A |
| **Identity (HPLC-RTM)** | Retatrutide | **Confirmed** | - | **PASS** |
| **Fentanyl Screen** | Immunoassay, 50 ng/mL cutoff | **Not Detected** | - | **PASS** |

### HPLC Chromatogram




*Retatrutide 20mg - PX1R20-0021: UV Chromatogram*

### Heavy Metals Analysis (ICP-MS)

| Test | Specification | Result | Status |
|---|---|---|---|
| **Arsenic (As)** | NMT 1.5 ppm | 0.0822 | **PASS** |
| **Cadmium (Cd)** | NMT 0.5 ppm | 0.0548 | **PASS** |
| **Lead (Pb)** | NMT 1 ppm | 0.0886 | **PASS** |
| **Mercury (Hg)** | NMT 1.5 ppm | 0.0609 | **PASS** |
| **Chromium (Cr)** | NMT 10 ppm | 0.1358 | **PASS** |

**Dr. Greg Kalyuzhny**
Lab Director
7/31/2026

COA #: **COA-2026-LC4V1-**
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Verify: portal.ils-lab.com/verify/jbVl1sBXJUxwF9eU
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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 0.05 EU/mL | **NMT 0.05 EU/mL** | **PASS** |
| *Acceptance criteria: NMT 0.05 EU/mL per client specification.* | | | |

### Notes & Methodology

1. Date Tested: 07/31/2026. Methods: Full QC Panel.
2. The sample was confirmed to be Retatrutide 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
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