HORIZON
ANALYTICAL LABORATORY

# Certificate of Analysis

| REPORT NO. | VERIFICATION CODE | REVISION | ISSUED |
|---|---|---|---|
| NOV-26-01 | HRZ-GK95-T63D | 2 | 13-NOV-2026 |

SCAN TO VERIFY

SAMPLE

## Retatrutide

Label claim: 10 mg / vial

OVERALL RESULT

**✗ Out of specification**

Content above 110 % of label claim

| CLIENT | MANUFACTURER (DECLARED) | BATCH / LOT | APPEARANCE |
|---|---|---|---|
| Orca Life Bio | Orca Life UK | OR-RT10-261102 | White lyophilized powder |

| TESTING ORDERED | SAMPLE RECEIVED | ANALYSIS CONDUCTED | UNITS TESTED · BLIND CODE |
|---|---|---|---|
| 04 NOV 2026 | 04 NOV 2026 | 05 NOV 2026 | 1 vial |

**PURITY · HPLC-UV**
**99.65 %**
Area % (HPLC-UV)

**CONTENT · HPLC-UV**
**11.13 mg**
111.3 % of label claim

**IDENTITY · LC-MS**
**Confirmed**
4729.42 Da (deconvoluted)

**ENDOTOXINS · LAL**
**Not tested**
—

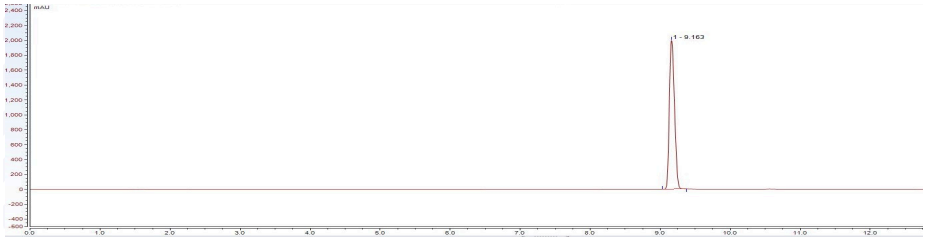
## Detailed results

N = VIALS TESTED · SD · RELATIVE SD

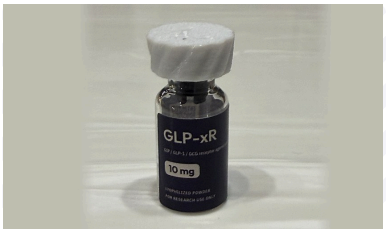
| PARAMETER | METHOD | RESULT | N | SD | %RSD | SPECIFICATION | STATUS |
|---|---|---|---|---|---|---|---|
| Purity (area %) | HPLC-01 | 99.65 % | 1 | n/a | n/a | ≥ 98.0 % | CONFORMS |
| Content | HPLC-01 | 11.13 mg (111.3 %) | 1 | n/a | n/a | 90–110 % of LC | OUT OF SPEC |
| Identity | LCMS-02 | 4729.42 Da (deconvoluted) | 1 | n/a | n/a | Matches theor. MW | CONFORMS |
| Largest impurity | HPLC-01 | 0.18 % | 1 | n/a | n/a | Report | |

## HPLC chromatogram

Vial 1 · 280 nm



## Product photo




## Method

HPLC-01

| | |
|---|---|
| Column | C18, 150 × 4.6 mm, 3.5 µm, 40 °C |
| Mobile phase · gradient | 0.1 % TFA in $H_2O$ / ACN |
| Detection | DAD, 280 nm |
| LOD / LOQ | 0.02 % / 0.05 % |
| Calibration | |

## Traceability

CHAIN OF CUSTODY

| | |
|---|---|
| Reference standard | — |
| Instrument | HPLC-DAD / LC-MS |
| Storage on receipt | +4 °C |
| Seals on receipt | |
| Comments | Rev. 2 supersedes Rev. 1 – editorial corrections only; analytical data unchanged. |

Yagız Akbaş · 05 NOV 2026
Analysed by · date

Yagız Akbaş · 06 NOV 2026
Reviewed by · date

Prof. Dr. Gizem Dinler Doğanay
Laboratory Director · approved · date


Address Reşitpaşa, Katar Cd. İTÜ Tasarım ve Prototip Merkezi No:2/41 Kapı No:10, Sarıyer / İstanbul · Contact gizem.doganay@horizon-biosolutions.com