PRODUCT SPECIFICATION

# Semaglutide 20 mg

NN9535 — synthetic GLP-1 receptor agonist analogue with a fatty-diacid side chain, supplied as a lyophilized research compound.

| CAS NUMBER | MOLECULAR WEIGHT | PURITY | PHYSICAL FORM |
|---|---|---|---|
| 910463-68-2 | 4,113.58 g/mol | ≥ 99% (HPLC-MS) | Lyophilized powder |

## 1 PRODUCT IDENTIFICATION

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| **Product Name** | Semaglutide 20 mg |
| **Product Code** | PCR-SEMA-20 |
| **Compound Type** | Synthetic GLP-1 receptor agonist — fatty-acid-conjugated peptide analogue |
| **Synonyms / Other Names** | Semaglutide; NN9535; NNC0113-0217 |
| **Amino Acid Count** | 31 |
| **Amino Acid Sequence** | H-{Aib}-EGTFTSDVSSYLEGQAA-{Lys(AEEA-AEEA-γGlu-C18 diacid)}-EFIAWLVRGRG-OH |
| **Vial Contents** | 20 mg lyophilized peptide, single vial |
| **Research Category** | Metabolic research peptide |

## 2 CHEMICAL AND PHYSICAL PROPERTIES

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|---|---|
| **CAS Number** | 910463-68-2 |
| **PubChem CID** | 56843331 |
| **Molecular Formula** | $C_{187}H_{291}N_{45}O_{59}$ |
| **Molecular Weight** | 4,113.58 g/mol |
| **Structural Notes** | Modified GLP-1(7-37) backbone with aminoisobutyric acid at position 8 and arginine substituted at position 34; C18 octadecanedioic diacid conjugated at Lys26 through a γ-glutamate spacer and two AEEA units; C-terminal free acid |
| **Appearance** | White to off-white lyophilized powder |
| **Physical State** | Lyophilized solid |
| **Purity** | ≥ 99% by HPLC-MS |


RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE. This document is not a Certificate of Analysis; batch-specific data is issued per lot.

## 3 SOLUBILITY AND RECONSTITUTION

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| **Solubility** | Soluble in bacteriostatic water |
| **Recommended Diluent** | Bacteriostatic water — supplied complimentary with every peptide order |
| **Solution Handling** | Prepare fresh, keep cold, and avoid repeated freeze-thaw cycles |

Note: as a lipid-conjugated peptide, the reconstituted solution may appear slightly turbid. This is expected and is not an indication of degradation.

## 4 STORAGE AND STABILITY

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| **Storage — Sealed Vial** | Freeze at ≤ −20 °C, sealed, away from light and moisture |
| **Shelf Life — Sealed** | Approximately 24 months under recommended storage conditions |
| **Storage — After Reconstitution** | Refrigerate at 2–8 °C |
| **In-Use Period** | 28–30 days after reconstitution |
| **Conditions to Avoid** | Heat, direct light, moisture, and repeated freeze-thaw cycles |

## 5 QUALITY ASSURANCE AND DOCUMENTATION

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| **Analytical Method** | High-performance liquid chromatography with mass spectrometry (HPLC-MS) |
| **Batch Testing** | Independent third-party analysis for identity, purity, and contaminants |
| **Certificate of Analysis** | Issued per batch — available at peptidescostarica.net/lab-tests-coa-results/ |
| **Batch / Lot Number** | Refer to the vial label and the accompanying Certificate of Analysis |

## 6 INTENDED USE AND REGULATORY STATUS

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|---|---|
| **Intended Use** | Research Use Only (RUO) — laboratory, analytical, and scientific applications |
| **Uses Advised Against** | Not for human or veterinary use. Not a drug, food, cosmetic, dietary supplement, or household product. Not for diagnostic or therapeutic use. |
| **Regulatory Status** | The semaglutide molecule holds FDA approval as a finished pharmaceutical under Novo Nordisk's brands Ozempic, Wegovy, and Rybelsus. This product is none of those medicines: it is an unlicensed research compound and is not approved for the prevention, diagnosis, treatment, or cure of any disease. |
| **Distribution** | Supplied within Costa Rica |

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**DOCUMENTATION**
peptidescostarica.net
COA database:
/lab-tests-coa-results/

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