

Certificate of Analysis

Product Information

- Product Name: ARA-290 (Erythropoietin-Derived Peptide)
- CAS Number: 1248205-35-0
- Molecular Formula: $C_{65}H_{107}N_{21}O_{23}$
- Molecular Weight: 1512.7 g/mol
- Appearance: White to off-white lyophilized powder

Batch Information

- Batch / Lot Number: ARA290-2025-002
- Quantity: 100mg
- Date of Manufacture: 10-Sep-2025
- Retest Date: 10-Sep-2027
- Storage Conditions: -20 °C, dry and protected from light

Analytical Results

Test	Specification	Result	Method
Identity (Mass Spectrometry)	Consistent with theoretical mass	Confirmed (1512.7 m/z)	ESI-MS
Purity (HPLC)	≥ 98.0 % (by area)	99.5 %	RP-HPLC
Appearance	White to off-white lyophilized powder	White powder	Visual
Solubility	Soluble in water, DMSO	Pass	Visual
Residual Solvent	≤ 0.5 %	<0.1 %	GC
Water Content (Karl Fischer)	≤ 5.0 %	2.1 %	KF titration
Peptide Content (by UV)	≥ 95.0 %	97.8 %	UV spectrophotometry
Endotoxin	< 0.25 EU/mg	Not Detected	LAL test
Microbial Limit Test	<100 CFU/g, no pathogens	Pass	USP <61>/<62>

Compliance Statement

The above batch of **ARA-290** complies with the stated specifications.
This batch of **ARA-290** meets all specified analytical and microbiological criteria and is suitable for **research use only**. Manufactured and tested under controlled conditions to ensure consistency, purity, and integrity.