

Certificate of Analysis (COA)

Product Name: IGF-1 LR3

Lot No.: 3132087

Sequence:MFPAMPLLSLFVNGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRAPQ
TGIVDECCFRSCDLRRLEMYCAPLKPAKSA

Modifications: N-terminal 13-amino acid extension (MFPAMPLLSLFVN); Glu3 substituted with Arg; three native disulfide bonds present.

Storage Conditions: -20°C

Report Date: 14 May 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	9117.6 ±10.0 Da	9920.1 Da
Purity (HPLC)	≥95.0%	99.3%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Related Substances (HPLC)	≤ 1.0% each / ≤ 3.0% total	0.8%
Solubility	Soluble in water (1 mg/mL clear solution)	Conforms
Acetic Acid Content	≤ 5000 ppm	1150 ppm
TFA Content	≤ 50 ppm	9 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
Total Aerobic Count	≤100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05 EU/mg