



Title:

Certificate of Analysis (CoA)

Date: 6/12/2026
Date Tested: 6/19/2026
Customer: Peptides Optimized LLC
Testing material: IGF-1 LR3
Lot Number: GR2056
BT Sample ID: 00500003943052
Labeled Peptide Content/Potency: 1 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, pink label, silver crimp, black plastic cap.
Labeled as: IGF-1 LR3
Manufacturer: N/A
Testing Purpose: FTIR and HPLC analysis for the identification, purity, potency and composition of a peptide product. It does not provide information on particulate matter, microbial contamination or presence of endotoxins.
(ABI-TEST 0012) test quantifies bacterial endotoxin levels to confirm that the product does not elicit pyrogenic reactions, maintaining patient safety and product integrity



Test	Method	Specification	Result
General Appearance	USP <630>	white powder	white powder
Mass	USP <41>	As recorded	46.2 mg
FTIR Identification and Composition Analysis	USP <197A>	Sample spectrum should confirm the content of peptide via characteristic bands	FTIR sample spectrum confirms the presence of IGF-1 LR3 with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: $\geq 98\%$	99.4 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 1 mg	0.97 mg (97 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	0.97: 4.91 mg (1:5.1)

The results of the CoA relate only to the item(s) tested and applied to the sample as received.



COA #:
1559193

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Title:

Certificate of Analysis (CoA)

Test	Method	Specification	Result
Bacterial Endotoxins Test	USP <85>	40 EU/vial reconstituted	PASS

The results of the CoA relate only to the item(s) tested and applied to the sample as received.

Bacterial Endotoxins Test IGF-1 LR3 Lot GR2056

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ , EU/mL)	Result
GR2056	IGF-1 LR3	3	40 EU/vial	0.25	9.6 EU/vial

The sample passed a valid gel clot endotoxin test based on the type, mode of administration and dosage.