

CERTIFICATE OF ANALYSIS

Tested By A US-Certified Laboratory

Sample Name: IGF-1 LR3
Analysis Equipment: LCMSMS-UV (Qtof positive ESI)
Lot #: AY0669

Sample Received: 04/27/2026
Sampling Date: 04/28/2026
Report Date: 04/28/2026

Molecular weight	(9100-9200 Daltons) 9117.60 g/mol-1	
Molecular formula	C400H625N111O115S9	
Sequence	MFPAMPLSSL FVNGPRTLPG AELVDALQFV CGDRGFYFNK PTGYGSSRRAPQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA	
Test Request	Specification	Result
Appearance	White lyophilized powder	Complies
Peptide Purity by LC (%)	>= 98.5%	99.36%
Peptide potency (mg/vial)	1±0.1	1.1
Identification by LCMSMS	9100-9120 g·mol-1	9111.7668 g·mol-1
Conclusions	Conforms to standard	Complies



QC Director



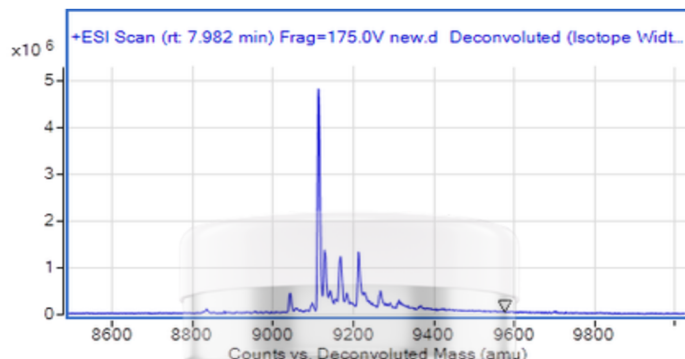
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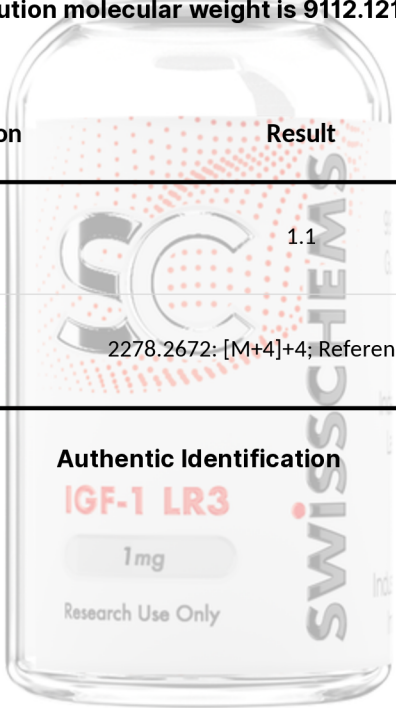
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Deconvolution molecular weight is 9112.1216 daltons

Test	Expectation	Result	Result
Potency (mg/vial)	1±0.1	1.1	HPLC-UV-MS
Identification	Complies	2278.2672: [M+4] ⁺ ; Reference: Table1	LC-MS/MS- positive



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Fig.1. Peptide/protein is identified and confirmed as Long arginine 3-IGF-1 (IGF-1 LR3)

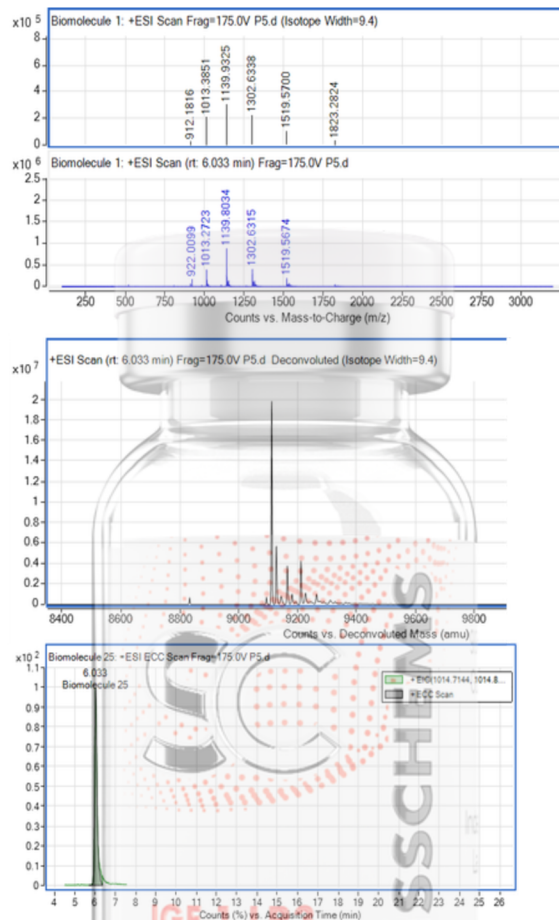


Table 1: Mass fragmentation and Calculated Molecular weight

	m/z	MW Calculated	H+
[M+5H] ⁺ 5	1823.2824	9111.4120	5
[M+6H] ⁺ 6	1519.5700	9111.4200	6
[M+7H] ⁺ 7	1302.6338	9111.4366	7
[M+7H] ⁺ 8	1139.9325	9111.4600	8
[M+7H] ⁺ 9	1013.3851	9111.4659	9
[M+10H] ⁺ 10	912.1816	9111.8160	10
[M+0H] ⁺ 0	9112.1216	9112.1216	0
Average Mass		9111.7668	

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