

MZ Biolabs 2102 N Country Club Rd Tucson, AZ 85716

contact@mzbiolabs.com www.mzbiolabs.com

Certificate of Analysis

Long arginine 3 Insulin-like growth factor

Compound : IGF-1 LR3

Client :

Tides Peptides

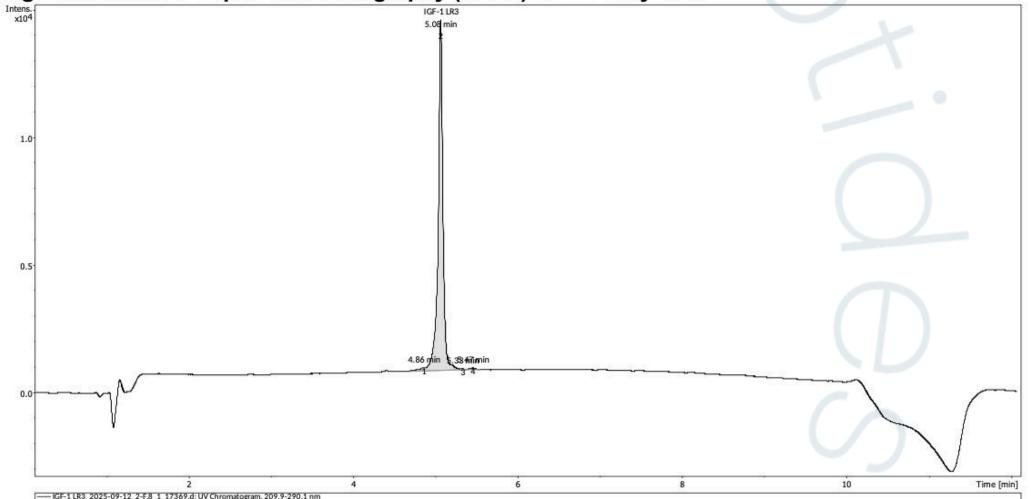
Lot number : 2025-09-12 Analysis date : 2025-09-22 www.tidespeptides.com

Purity % : 99.50%

Method : HPLC-UV-MS

CAS 143045-27-6

High Performance Liquid Chromatography (HPLC) UV - Purity Test



P	PEAK LIST	Number of detected	ed peaks: 4	
	Time (min)	Area	%Area	
1	4.86	3.74E+01	0.07	
2	5.08	5.58E+04	99.50	IGF-1 LR3
3	5.33	9.90E+00	0.02	
4	5.47	2.31E+02	0.41	



Analysis Performed by Ken Pendarvis, ChE Analytical Chemist MZ Biolabs contact@mzbiolabs.com

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.

2025-09-29



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IGF-1 LR3

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Mass Spectrometry (MS) – Identity Test

Identityconfirmed using HPLC-MS

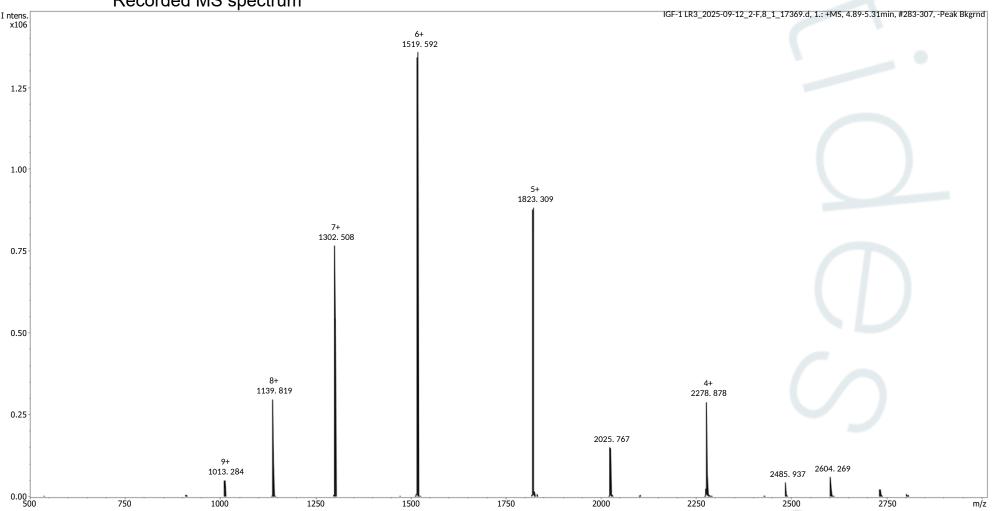
Molecular weight calculated using base peak m/z values from mass spectrum

Expected average mass: 9111.40 Da Measured base peak mass: 9111.40 Da

Molecular weight confirmed

Note: The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum





Analysis Performed by Ken Pendarvis, ChE **Analytical Chemist** MZ Biolabs contact@mzbiolabs.com

2025-09-29



CERTIFICATE OF ANALYSIS

Product Name	LGF-1 LR3;	CAS NO.	946870-92-4
	Recombinant Human Long Arg3 insulin-like growth factor-1		
Batch NO.	NCIGF250615	Molecular formula	C400H625N111O115S9
Manufacture Date	June 15, 2025	Molecular weight	9117.5
Sequence	MFPAMPLSSL FVNGPRTLCG AELVDALQFV CGDRGFYFNK PTGYGSSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA		

TEST	SPECIFICATION	RESULTS	
Appearance	White powder	Conforms	
Identity by HPLC	The retention time of the main principal of the test Solution corresponds to that of the reference Solution, as obtained in the assay	Conforms	
Solubility	Soluble in water	Conforms	
Purity(HPLC)	≥98%	99.2%	
Mass Spectrum	9112±0.5	9112	
Water	≤10.0%	4.4%	
Sterility	Should be sterile	Sterile	
рН	6.0~8.0	7.1	
Content	Labelled Amount ±10%	Conforms	
Bacterial Endotoxins	≤5.0EU/mg	Conforms	
Cellular activity	≥1000000IU/mg	5000000IU/mg	
Conclusion	nclusion This product conforms to the Enterprise Standard.		

Note: this product is intended for research use only

Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.