



MZ Biolabs

MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
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Certificate of Analysis

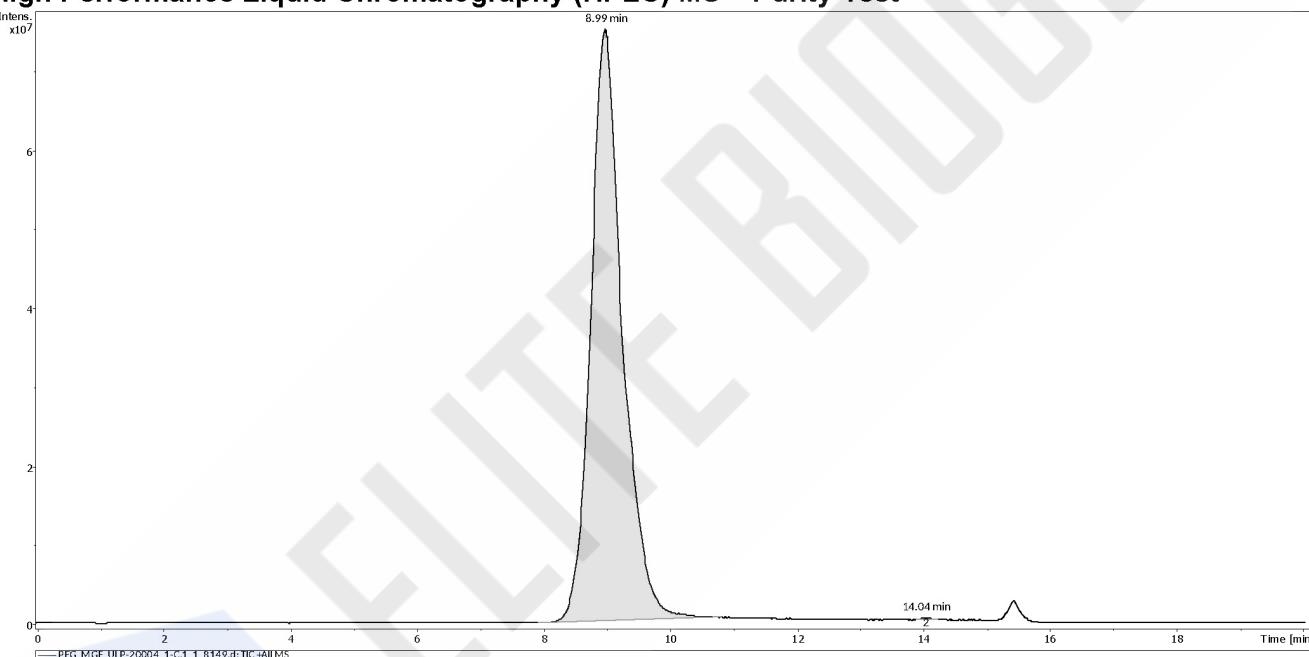
PEG-MGF 1 mg

pegylated Insulin-like growth factor (IGF-1Ec)

Compound : PEG-MGF
Lot number : 833
Analysis date : 2025-01-09
Purity % : 99.90%
Method : HPLC-MS

Client : Elitebiogenix Inc
9140 Court Dr
Cantonment, FL 32533

High Performance Liquid Chromatography (HPLC) MS – Purity Test



PEAK LIST		Number of detected peaks: 2		
	Time (min)	Area	%Area	
1	8.99	2.61E+09	99.90	PEG-MGF
2	14.04	2.54E+06	0.10	

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


2025-01-28

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.



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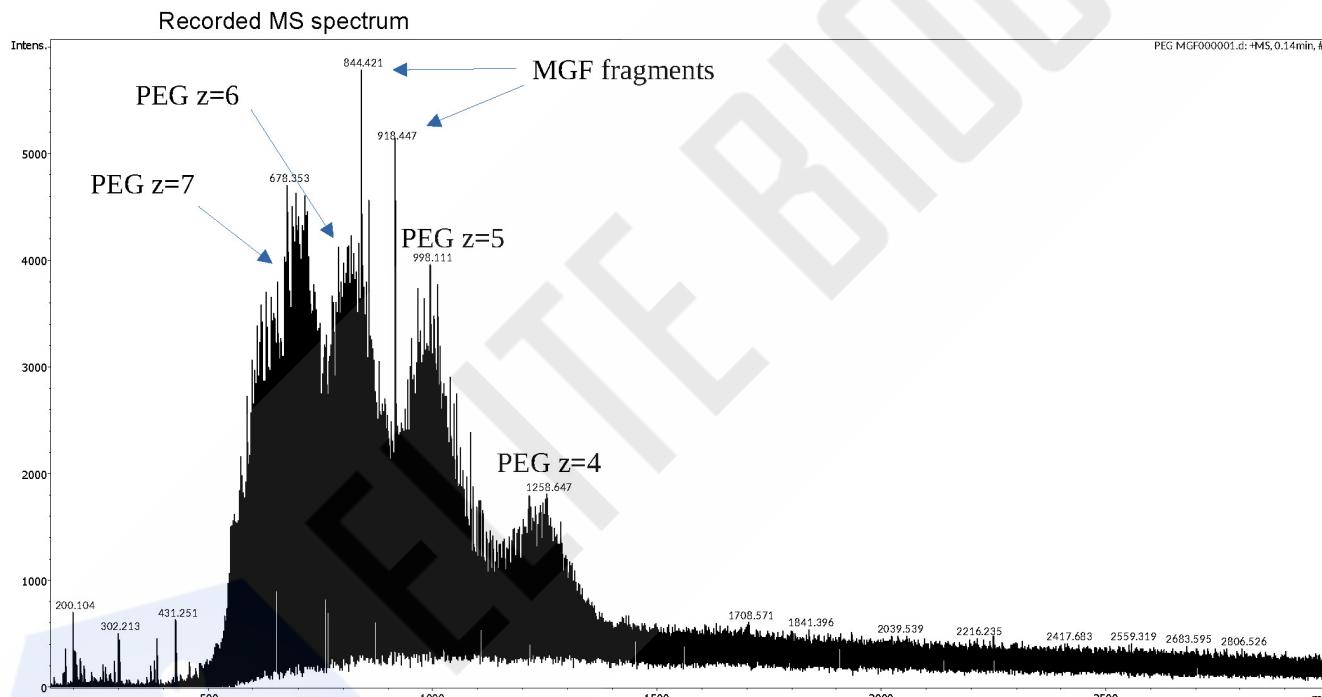
PEG-MGF 1 mg

pegylated Insulin-like growth factor fragment (IGF-1Ec)

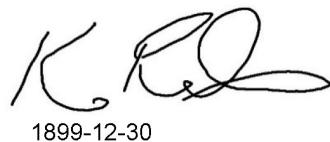
Mass Spectrometry (MS) – Identity Test

Molecules with PEG added are difficult to interpret. The spectrum below shows 4 large overlapping humps corresponding to different charge states of PEG when ionized (+4, +5, +6, +7). These humps are characteristic of PEG and indicate the MGF is pegylated. This is further confirmed by the m/z spacing corresponding to the 44 Da repeating peg units. This is not shown below because space constraints. MGF is confirmed by the peaks of m/z 844 and 918 which are unique to MGF and appear when the mass spectrometer provides a slight fragmentation energy to the sample.

Identity Confirmed



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1899-12-30