

Certificate of Analysis

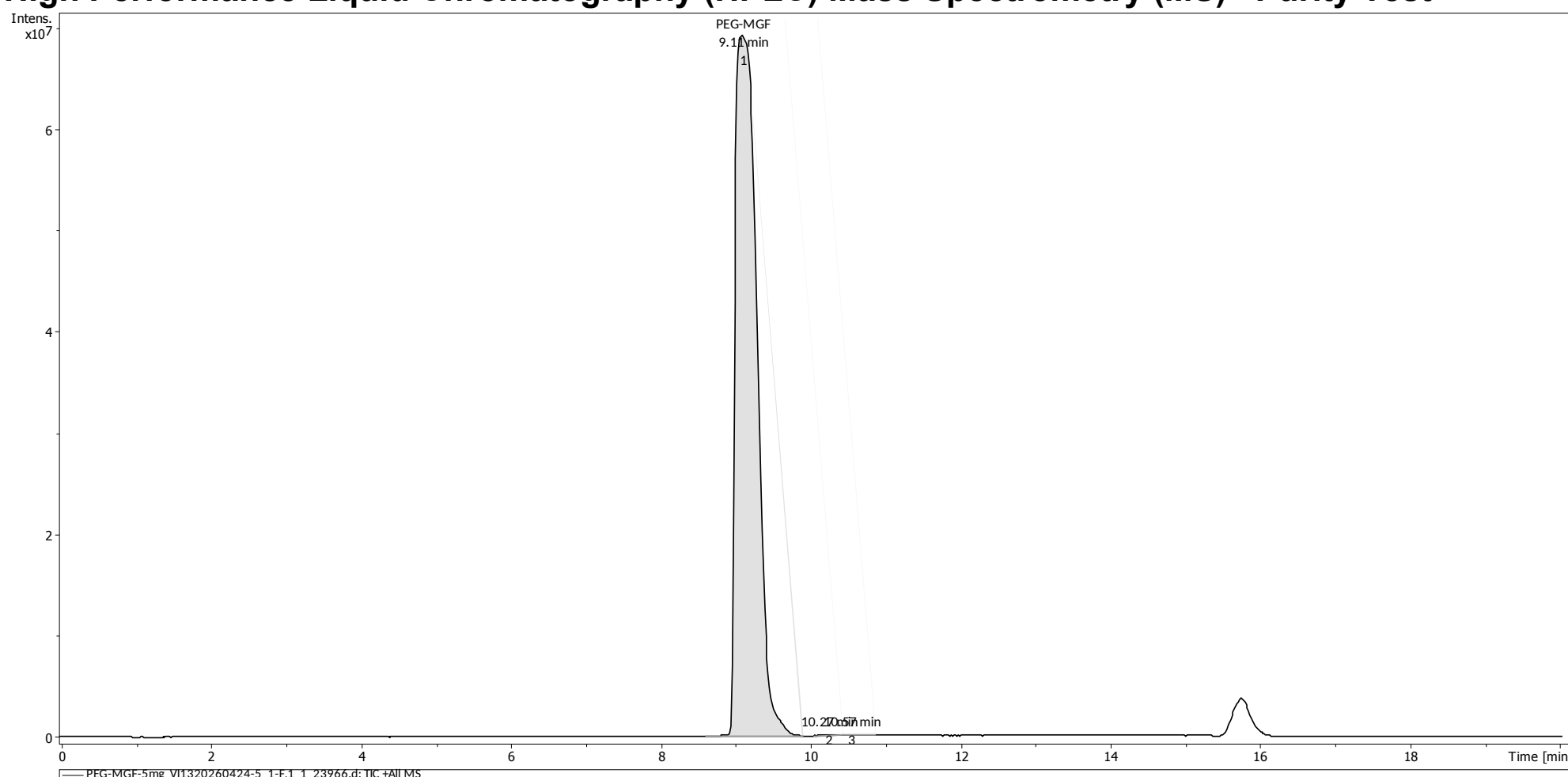
PEG-MGF 5mg

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

Compound : PEG-MGF
Lot number : 3141064
Analysis date : 2026-07-15
Purity % : 99.83%
Method : HPLC-MS

Client : SIMPLE RESEARCH PEPTIDES

High Performance Liquid Chromatography (HPLC) Mass Spectrometry (MS)– Purity Test



PEAK LIST		Number of detected peaks: 3		
	Time (min)	Area	%Area	
1	9.11	1.40E+09	99.83	PEG-MGF
2	10.27	1.25E+06	0.09	
3	10.57	1.09E+06	0.08	

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs



2026-07-26

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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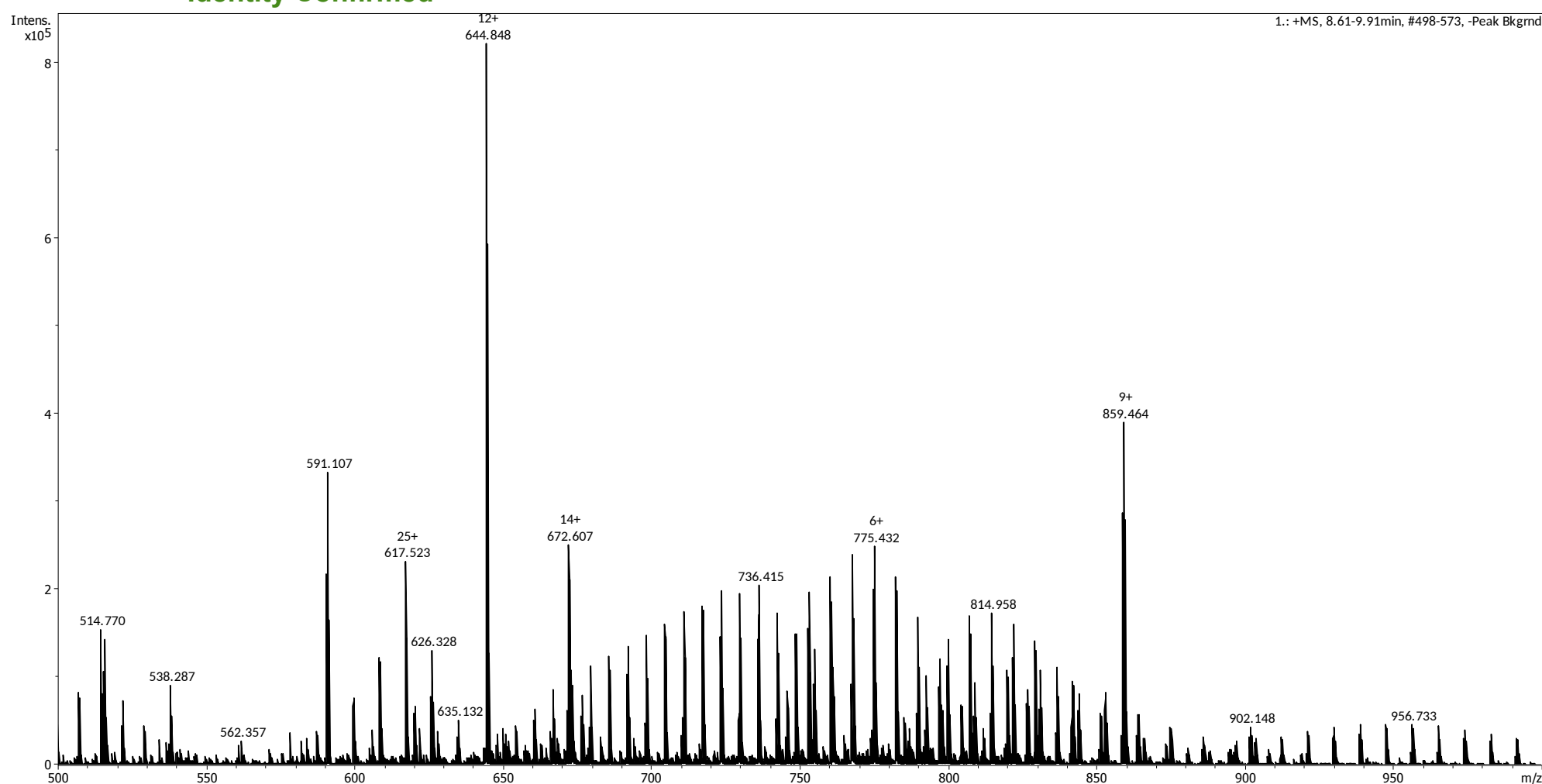
Mass Spectrometry (MS) – Identity Test

Molecules with PEG added are difficult to interpret. In order to confirm MGF is the base peptide, mass spectrometer provides a slight fragmentation energy to the sample, causing some MGF to detach from the PEG chain and partially fragment further.

Several peaks specific to MGF indicate it's identity – 645, 717, 844, 918, 956, and 1434.

Not all of the peaks are always visible and only 2-3 of them can confirm the identity.

Identity Confirmed



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