MZ Biolabs
2102 N Country Club Rd
Tucson, AZ 85716
contact@mzbiolabs.com
www.mzbiolabs.com

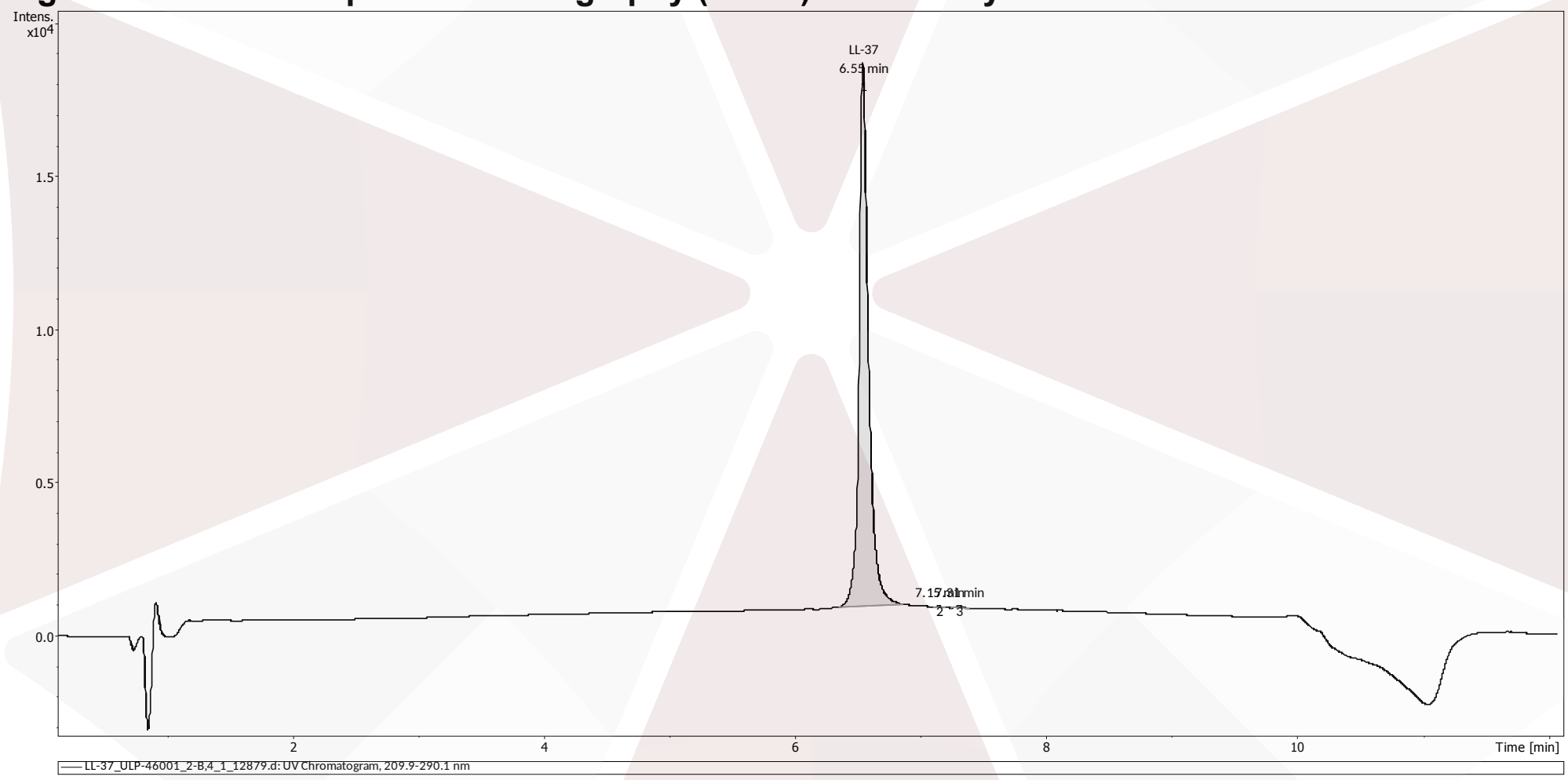
Certificate of Analysis

LL-37 (Cathelicidin)

Compound	: **LL-37**	**Client :**	**UMBRELLA.us**
Lot number	: **ULP-46001**		**3280 E Hemisphere Loop**
Analysis date	: **2025-06-02**		**Tucson, Arizona 85706**
Purity %	: **99.62%**		
Method	: **HPLC-UV-MS**		

PubChem CID: 16198951
https://pubchem.ncbi.nlm.nih.gov/compound/16198951

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST Number of detected peaks: 3

	Time (min)	Area	%Area	
1	**6.55**	**9.32E+04**	**99.62**	**LL-37**
2	7.15	9.52E+01	0.10	
3	7.31	2.63E+02	0.28	

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.

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

2025-06-04

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LL-37 (Cathelicidin)

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https://pubchem.ncbi.nlm.nih.gov/compound/16198951

Mass Spectrometry (MS) – Identity Test

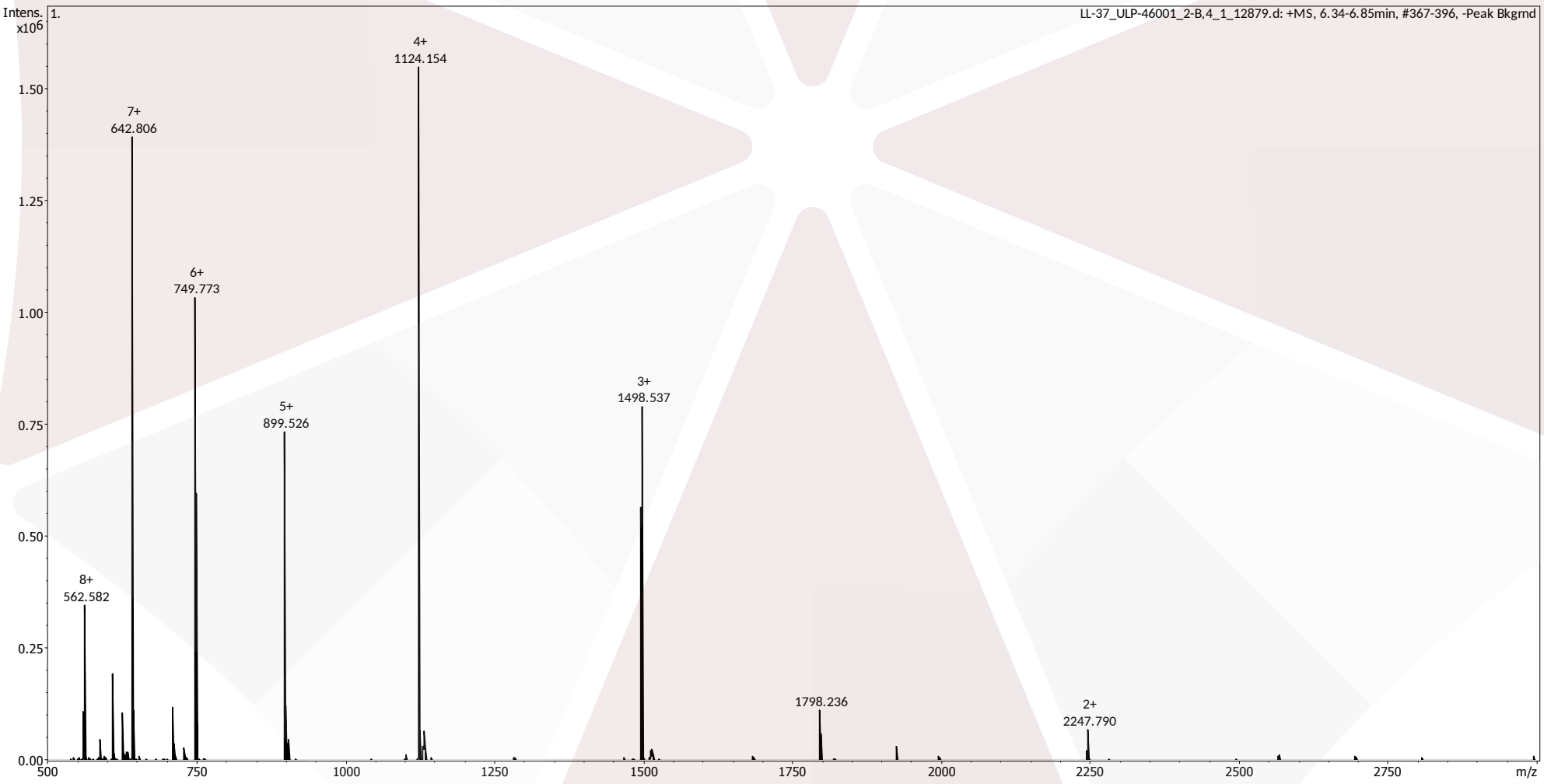
Identity confirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	4490.58	Da
Measured monoisotopic mass :	4490.61	Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. 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
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2025-06-04