

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

Certificate of Analysis Livagen

H-Lys-Glu-Asp-Ala-OH

Compound : Livagen Client : UMBRELLA.us

Lot number : ULP-49070 3280 E Hemisphere Loop
Analysis date : 2024-12-31 Tucson, Arizona 85706

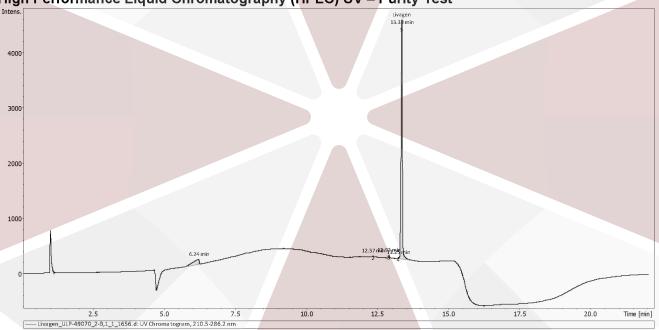
Purity % : 99.00%

Method : HPLC-UV-MS

PubChem CID: 87919683

https://pubchem.ncbi.nlm.nih.gov/compound/87919683

High Performance Liquid Chromatography (HPLC) UV - Purity Test



Time (min) Area %Area	
1 6.24 1.36E+03 8.26 mannitol (MW 182.0	3)
2 12.37 4.11E+01 0.25	
3 12.92 1.26E+02 0.76	
4 13.25 2.88E+01 0.17	
5 13.38 1.50E+04 90.55 Livagen	
Overall purity 99.00	

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.

2025-01-08



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Livagen

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Mass Spectrometry (MS) - Identity Test

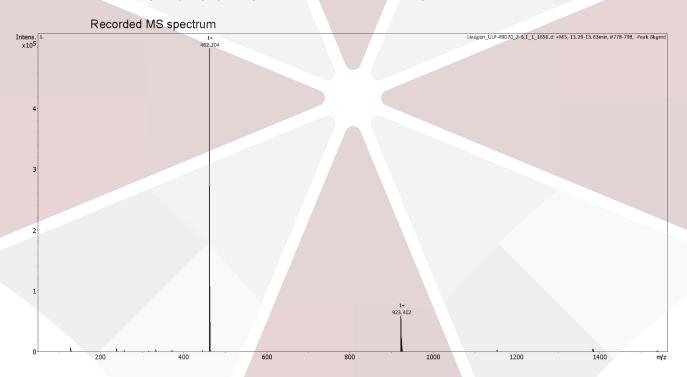
Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass: 461.21 Da Measured monoisotopic mass: 461.20 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.



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