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Regenerative Research
1475 S. Fillmore St
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Project 135241
Lab # 127997
Date Rec'd 8/15/2025
Report Issued 8/25/2025

Project
Sample SS-31 50 mg SS-31

Certificate of Analysis

Analyte	Result	LOQ	Units	Method	Date	% of Label
Microbiology						
Endotoxins	ND	0.5	EU/mL	USP 85	8/22/2025	
Peptide Analysis						
Purity by area	99.82	0.5	%	HPLC-UV/MS	8/22/2025	
Purity by mass	48.6	0.5	mg	HPLC-UV/MS	8/22/2025	97.23
Spectral identification	Confirmed			HPLC-UV/MS	8/22/2025	

The data presented are from the analysis of the sample shown and meet Krause Analytical internal quality assurance criteria unless otherwise flagged.
Methods shown reference current Krause Analytical SOPs
ND - Not detected LOQ - limit of quantification

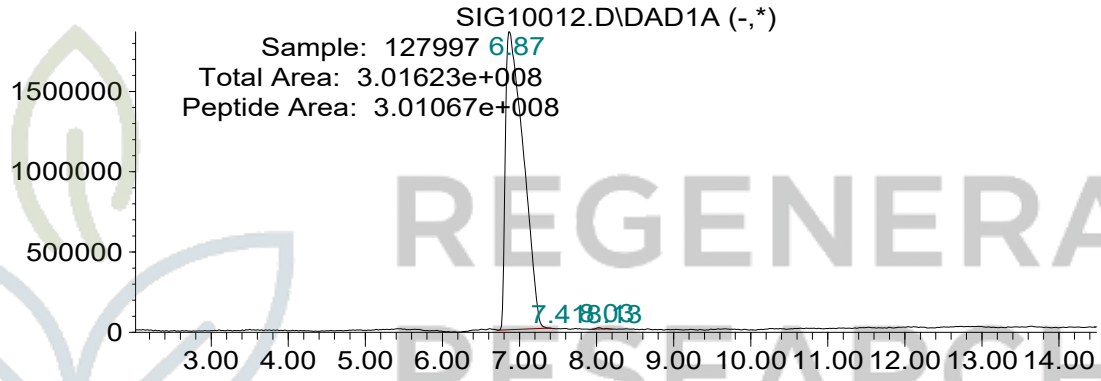
Respectfully submitted,

Mark C. Krause
Laboratory Director

Lab #:127997 SS-31 50 mg

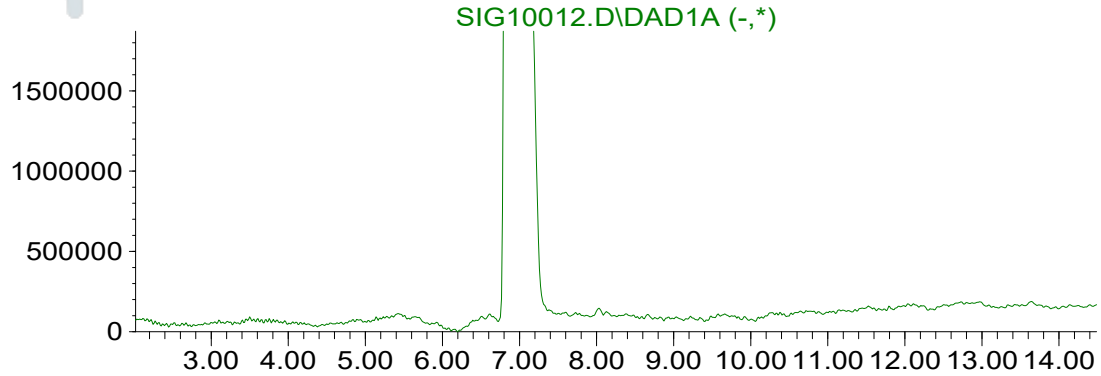
Chromatogram

Response_



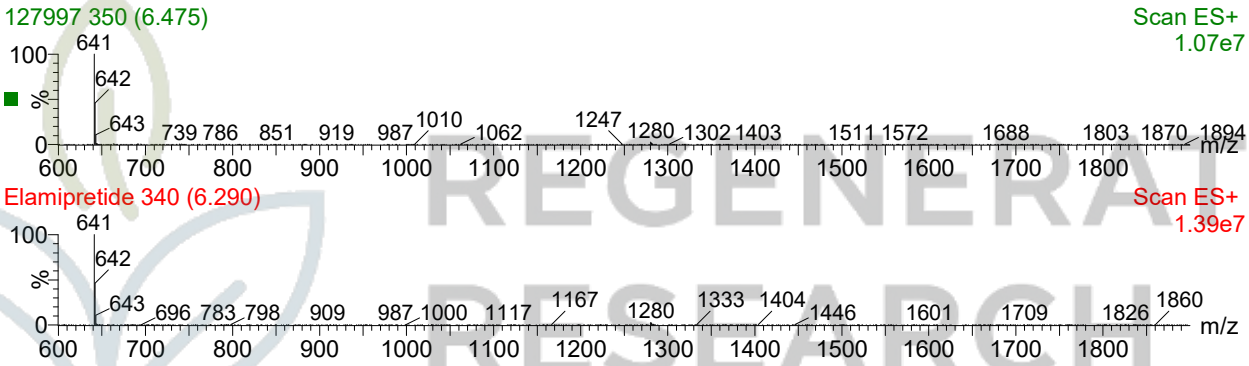
Time

Response_



Time

Spectra



Method Summary

- 2 mL of purified water is added to the lyophilized powder in the vial, and the contents mixed to dissolve the lyophilized powder.
- An aliquot is taken from the vial and diluted to contain approximately 500 mg/L of the peptide.
- The diluted sample is analyzed by HPLC-UV-MS.
- The mass spectrum obtained is compared to an authentic standard of the peptide for identification.
- The total area of all of the peaks in the chromatogram is calculated, and the area of the peak of the peptide is divided by the total area to obtain the purity by area value, reported in percent.
- The area of the peptide is compared to the area of the peptide peak in the known standard to obtain a concentration in the solution. This concentration is used to calculate the total mass of peptide in the vial, which is compared to the stated mass (label claim) and reported as both total mass in the vial and as a percent of the label claim.