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Regenerative Research
Denver, CO 80210



Project 135319
Lab # 128694
Date Rec'd 9/22/2025
Report Issued 9/29/2025

Project

Sample KPV 10 mg KV25-01

Certificate of Analysis

<u>Analyte</u>	<u>Result</u>	<u>LOQ</u>	<u>Units</u>	<u>Method</u>	<u>Date</u>	<u>% of Label</u>
Microbiology						
Endotoxins	ND	1.0	EU/mL	USP 85	9/29/2025	
Peptide Analysis						
Chromatographic purity	98.83	0.5	%	HPLC-UV/MS	9/24/2025	
Total peptide mass	9.32	0.5	mg	HPLC-UV/MS	9/24/2025	93.18
Mass spectral identification	Confirmed			HPLC-UV/MS	9/24/2025	

REGENERATIVE
RESEARCH

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
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Respectfully submitted,

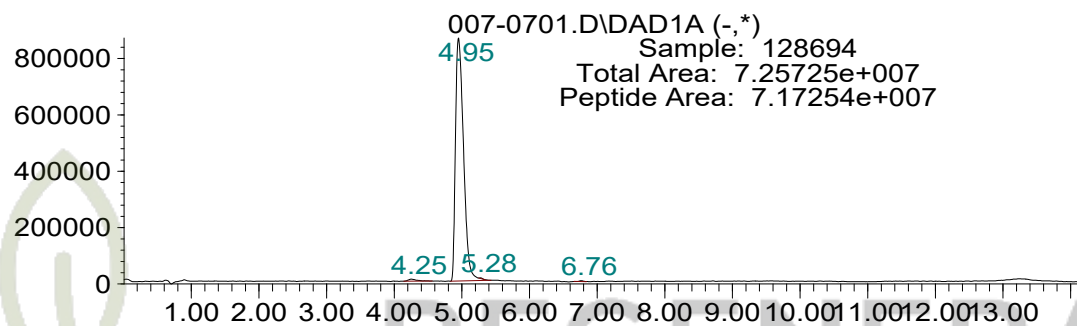
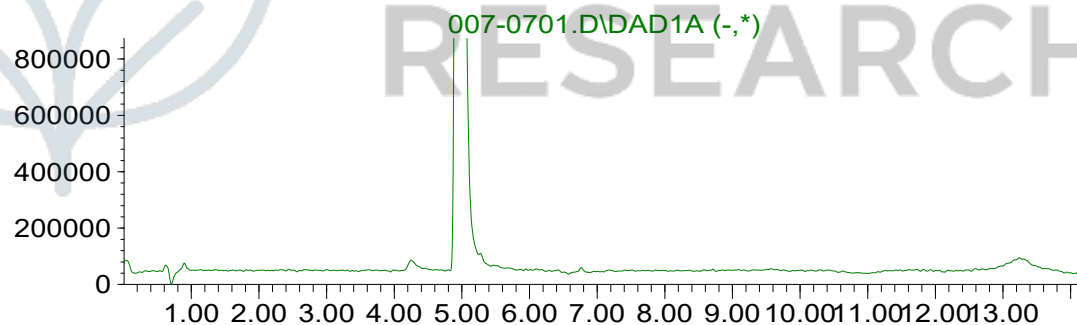
Mark C. Krause
Laboratory Director

**krause analytical**

Lab #: 128694 KPV 10 mg KV25-01

Chromatogram

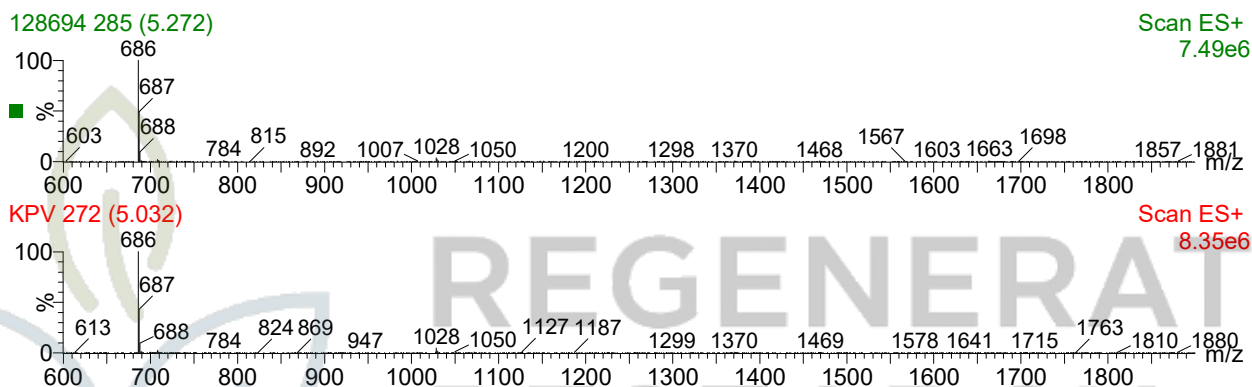
Response_

Time
Response_

Time



Mass spectrum/Reference Spectrum



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 chromatographic purity 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.