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Denver, CO 80210

Project 135364
Lab # 129151
Date Rec'd 9/26/2025
Report Issued 10/6/2025

Project
Sample Pinealon 10 mg PN25-01

Certificate of Analysis

Analyte	Result	LOQ	Units	Method	Date	% of Label
Microbiology						
Endotoxins	ND	1	EU/mL	USP 85	10/3/2025	
Peptide Analysis						
Chromatographic purity	99.20	0.5	%	HPLC-UV/MS	10/3/2025	
Total peptide mass	9.92	0.5	mg	HPLC-UV/MS	10/3/2025	99.2
Pinealon	ID Confirmed			HPLC-UV-MS	10/3/2025	

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,

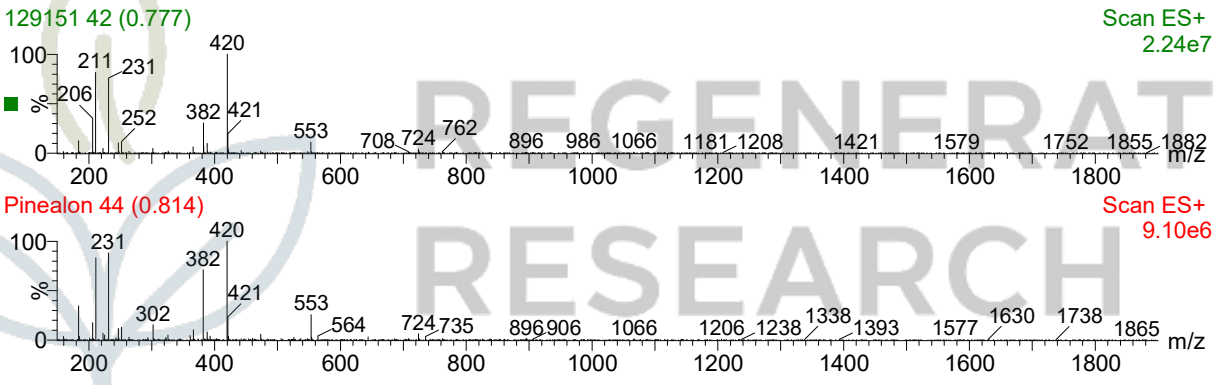
Mark C. Krause
Laboratory Director

krause analytical

Chromatogram

krause analytical

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.