



PRODUCT IDENTIFICATION

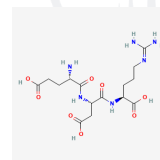
HPLC-UV coupled with LC-MS, standard laboratory conditions

Compound Name	Pinealon	CAS No.	175175-23-2
Molecular Formula	C15H26N6O8	Molecular Weight	418.41 g/mol
Appearance	Lyophilized Powder	Compound Concentration	20mg
Sequence:	Glu-Asp-Arg		

SAMPLE IDENTIFICATION

Client-supplied, verified at intake

Container Size	3ml Glass Vial	Cap Color	Clear
Crimp / Seal Color	Silver		
Product Company	RENOVIITA RESEARCH LLC		



MOLECULAR STRUCTURE



CLIENT SAMPLE PHOTO

ANALYTICAL RESULTS

Test	Specification	Result	Status
Purity (HPLC)	>= 90.0%	99.04%	PASS
Mass Identification (LC-MS)	Conforms to declared compound	Pinealon	PASS
Net Compound Content	90.0–110.0% of 20 mg	20.11 mg	PASS
Water Content (Karl Fischer)	<= 10.0%	4.98%	PASS
Acetate Content (HPLC)	< 12.0%	4.04%	PASS
Heavy Metals (ICP-MS)	< 10 ppm	Not Detected	PASS
Bacterial Endotoxins (LAL)	< 5 EU/mg	Not Detected	PASS
Sterility (RMM)	USP <71>	Not Requested	-
Mass Balance	95.0 – 105.0%	Conforms	PASS

ANALYST NOTES

Sample received labeled as Pinealon, 20 mg, white lyophilized powder.

Identity: LC-MS analysis of the principal peak (RT 2.02 min) produced a protonated molecular ion at m/z 419.2 as the base peak, with its isotope ions at m/z 420.2 and 421.2, a doubly charged ion at m/z 210.1, a sodium adduct at m/z 441.2 and a protonated dimer at m/z 837.4, consistent with Pinealon (Glu-Asp-Arg, theoretical monoisotopic mass 418.2 Da). Identity result: Conforms.

Purity: 99.04% by HPLC-UV, principal peak relative to total integrated peak area. No related-substance peaks above the reporting threshold.

Net content: Pinealon quantified at 20.11 mg per vial against the compound calibration curve, 100.6% of label claim. Net content result: Conforms (within 90.0 to 110.0% of label).

Conclusion: Sample conforms to label for identity, purity and net content.

INSTRUMENT DATA

Traces behind the results above

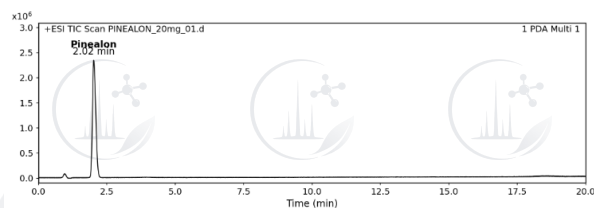


FIGURE 1 — TOTAL ION CHROMATOGRAM (LC-MS)

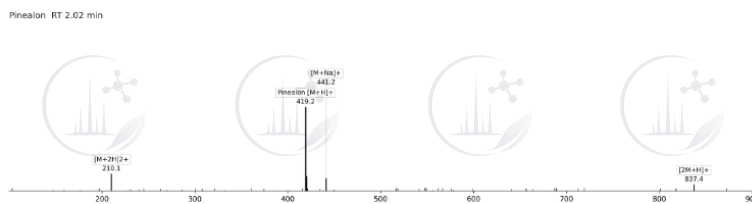


FIGURE 2 — MASS SPECTRUM, PRINCIPAL PEAK (LC-MS)

Lee Adams

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Lab Director

COA: PMS-5821418253

The analysis reported herein was conducted using HPLC-UV and LC-MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The compounds tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables. The sample image included in this Certificate of Analysis was provided by the client during intake. For research use only.



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