Atlas Bioscience Labs
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a joint venture with Advanced Laboratories

ANALYTICAL REPORT

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P.O.#:
DATE: March 2, 2022

Sample:	Lab Number:
MM300	**78702-02**
	Lot Number: **Undesignated**

Analyte	Result	Unit
Macamides	4.863	mg / g
Macaenes	2.386	mg / g
Macamide (N-Bz-HexDecamide)	0.763	mg / g
Macamide (N-Bz-OctDecamide)	0.095	mg / g
Macamide (N-Bz-OctatrienDecamide)	0.728	mg / g
Macamide (N-Bz-Octdiene Decamide)	0.721	mg / g
Lead	0.29	ppm
Arsenic	0.40	ppm
Cadmium	0.49	ppm
Mercury	0.17	ppm
Total Heavy Metals	1.35	ppm

Macamide analysis performed using HPLC by method of Ali, S., Iqbal, M.G., Srivastava, P.S. “Detection of alkaloids in medicinally potential herb - Lepidium meyenii”, as published in Indian Drugs, 34(5): 286-288, 1997, using a column (15 cm * 4 mm) of TSKgel 120 A (5 mum), with 66.7mM-sodium phosphate (pH 3.5) - methanol (12:13) containing 17.5mM-Na dodecyl sulphate as mobile phase (35deg, 1 ml min-1), and detection at 210 nm.
Heavy metal analysis performed using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) on a Perkin Elmer Optima 7300DV on a 2% nitric acid digested sample (1mg/ml) introduced at 1.0ml / min with a 15L/min argon plasma temp of 16000°C, in simultaneous wavelength mode with integration time of 5 sec in triplicate for each elemental signature emission line External calibration solution utilized for quantification obtained from Absolute Standards.

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