

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	30-Sep	Country of Origin	Vanuatu
Sample Number	S2182	Country of Processing	USA
Product Name	Lateral Roots	Manufacture Date	Aug-24
Lot Number	VSSC2408-TR9	Best By Date	Aug-27

ITEM	SPECIFICATION	TEST RESULTS	METHOD
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PHYSICAL & CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	11.72%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	24361	HPLC
K/DHM	> 1.2 for Noble	1.9	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	77.7 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	916 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	114 ppb	FDA EAM 4.7
Mercury (Hg)	NMT 1,000 (ppb)*	< 10 ppb	FDA EAM 4.7

*Heavy Metals Action Limits Based on Maximum PDE at 5% Kavalactones. Results May Exceed 1,000 ppb action limit with higher kavalactone contents.

MICROBIOLOGICAL

		Results	
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	250,000 cfu / 10 g	USP 61
E. COLI	ABSENT (cfu/10g)	Absent cfu / 10 g	USP 62
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent cfu / 10 g	USP 62
SALMONELLA	ABSENT (cfu/10g)	Absent cfu / 10 g	USP 62
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent cfu / 10 g	USP 62
YEAST	NMT 100,000 cfu (Combined)	160 cfu / 10 g	
MOLD	NMT 100,000 cfu (Combined)	28,000 cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	28,160 cfu / 10 g	

cfu/g = Colony Forming Units Per Gram NMT = No More Than PDE = Permitted Daily Exposure PPB = Parts Per Billion

Analysis Performed by a Third-Party Laboratory

We are dedicated to offer the best quality of botanical products on the market. We test and stand behind our products.

*Disclaimer * The test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing methods.*

These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an in-house quality control department or obtain an additional independent third-party lab to verify that this material meets specifications.

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