



Certificate of Analysis

01 AUGUST 2025
RBEXTRASHOT
LOT #: 12827



Client:	REAL BOTANICALS 201	SAMPLE SET:	204000
Client Address:	Tom Hall Street PO Box 873 Fort Mill, SC 29716	Prepped By:	Sarah T.
Sample Matrix:	Fort Mill, SC 29716	Date Received:	07/28/2025
Sample Type:	Kratom Liquid	Acquisition Method:	MIT-EVO_R2025-01
Product Size:	59ml Bottle	Testing ID:	204000_0004.D
		Date Tested:	07/28/2025

ID/POTENCY

#	Analyte	Formula	Analytical Method(s)	Total %	Unit
1	Mitragynine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.309	mg/mL
2	7-Hydroxymitragynine	$C_{23}H_{30}N_2O_5$	HPLC (Adapted Mudge & Brown, 2020*)	N/D	mg/mL
3	Paynantheine	$C_{23}H_{28}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.060	mg/mL
4	Speciogynine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.060	mg/mL
5	Speciociliatine	$C_{23}H_{30}N_2O_4$	HPLC (Adapted Mudge & Brown, 2020*)	0.044	mg/mL

BIOLOGICAL

#	Analyte	Spec	Result	Method	Sample Size
1	Aerobic Plate Count	< 10,000,000 cfu/g	< 100,000 cfu/g	0973-00 Petrifilm 2025-41	10g
2	Coliforms	< 10,000 cfu/g	< 10,000 cfu/g	0973-00 Petrifilm 2025-41	10g
3	Enterobacteriaceae	< 10,000 cfu/g	< 10,000 cfu/g	0973-00 Petrifilm 2025-41	10g
5	Yeast & Mold	<100,000 cfu/g	<100,000 cfu/g	0972-00 Soleris 2025-41	10g
6	Staphylococcus	Absent in 10g	Absent	0973-00 Petrifilm 2025-41	10g
7	E. coli	Absent in 10g	Absent	0972-00 Soleris 2025-41	10g
8	Salmonella	Absent in 10g	Absent	0972-00 Soleris 2025-41	10g

HEAVY METALS

Product #	Lot #	Metals	Spec	Results
RBEXTRASHOT	12827	Arsenic	< 10,000 ppb	N/D
		Cadmium	< 4,100 ppb	N/D
		Lead	< 900 ppb	N/D
		Mercury	< 300 ppb	N/D

Mitragynine Content: **3.0** mg/mL
THREE PERIOD ZERO

Heavy Metals: **Within Spec**

Biological: **Within Spec**



SEAL OF AUTHENTICITY

VERIFIED BY:

Quality Assurance:

* Method conforms to AOAC methods for Microbial and Kratom Working Group SMPRs for mitragynine and 7-OH w/internal lab method MIT-EVO_R2025-01.
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01 AUGUST 2025
RBEXTRASHOT
LOT #: 12827



Client:	REAL BOTANICALS	SAMPLE SET:	204000
Client Address:	201 Tom Hall Street	Prepped By:	Sarah T.
	PO Box 873	Date Received:	07/28/2025
Sample Matrix:	Fort Mill, SC 29716	Acquisition Method:	JIA-KVL_2025-01.M
Sample Type:	Kava Liquid	Testing ID:	JIA-KVL_306829.D
Product Size:	59ml Bottle	Date Tested:	07/28/2025

ID/POTENCY

#	Analyte	Analytical Method(s)	Kavalactone #	Kavalactone %	Unit
1	Methysticin	HPLC (Adapted JH 20231019, 2023*)	6	0.05	mg/mL
2	Dihydromethysticin	HPLC (Adapted JH 20231019, 2023*)	5	0.03	mg/mL
3	Kavain	HPLC (Adapted JH 20231019, 2023*)	4	0.13	mg/mL
4	Dihydrokavain	HPLC (Adapted JH 20231019, 2023*)	2	0.10	mg/mL
5	Yangonin	HPLC (Adapted JH 20231019, 2023*)	3	0.07	mg/mL
6	Desmethoxyyangonin	HPLC (Adapted JH 20231019, 2023*)	1	0.04	mg/mL

BIOLOGICAL

#	Analyte	Spec	Result	Method	Sample Size
1	Aerobic Plate Count	< 10,000,000 cfu/g	< 100,000 cfu/g	0973-00 Petrifilm 2025-41	10g
2	Coliforms	< 10,000 cfu/g	< 10,000 cfu/g	0973-00 Petrifilm 2025-41	10g
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HEAVY METALS

Product #	Lot #	Metals	Spec	Results
RBEXTRASHOT	12827	Arsenic	< 10,000 ppb	N/D
		Cadmium	< 4,100 ppb	N/D
		Lead	< 900 ppb	N/D
		Mercury	< 300 ppb	N/D

Kavalactone Content: **4.2** mg/mL
FOUR PERIOD TWO

Kavalactone Lineup: **4-2-3**

Metals / Microbial: **Within Spec**



SEAL OF AUTHENTICITY

VERIFIED BY:

[Signature]

Quality Assurance:

Sarah T.

* Method conforms to AOAC methods for Microbial and Kratom Working Group SMPRs for mitragynine and 7-OH w/internal lab method MIT-EVO_R2025-01.
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