



# 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 <sub>23</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>	HPLC (Adapted Mudge & Brown, 2020*)	0.309	mg/mL
2	7-Hydroxymitragynine	C <sub>23</sub> H <sub>30</sub> N <sub>2</sub> O <sub>5</sub>	HPLC (Adapted Mudge & Brown, 2020*)	N/D	mg/mL
3	Paynantheine	C <sub>23</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub>	HPLC (Adapted Mudge & Brown, 2020*)	0.060	mg/mL
4	Speciogynine	C <sub>23</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>	HPLC (Adapted Mudge & Brown, 2020*)	0.060	mg/mL
5	Speciociliatine	C <sub>23</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>	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: *[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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 RBEXTRASHOT  
 LOT #: 12827



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

*Kate*

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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