



# CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 08/12/2022

Analysis ID No. 223308  
 TDA License No. 2020002  
 ISO/IEC No. 1055838  
 Purchase Order: 20220947  
 Page No. Page 1 of 2

CUSTOMER INFORMATION	SAMPLE INFORMATION
<b>Company Name:</b> Botanical Brewing Co.	<b>Submitted Sample Name:</b> Tiki Apple 355 mL
<b>Address:</b> 843 Miramar St, Cape Coral FL 33904	<b>Submitted Sample Lot:</b> N/A
<b>Phone Number:</b> 239-946-0719	<b>Submitted Sample Description:</b> Canned Kratom Beverage; Stored at Rm Temp
<b>Contact Name / Email:</b> James Jones / james@botanicalbrewing.com	<b>Submitted Sample Product Type / Matrix:</b> Kratom Extract / Beverage

ALKALOIDS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.005 w/w% 0.050 mg/g 0.052 mg/mL	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.002 w/w% 0.017 mg/g 0.018 mg/mL	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.002 w/w% 0.022 mg/g 0.023 mg/mL	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.003 w/w% 0.030 mg/g 0.031 mg/mL	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only* % Total Alkaloids: NMT 2%	< 0.010 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.012 w/w% 0.119 mg/g 0.123 mg/mL	Results Reported

MICROBIOLOGICAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aerobic Plate Count (TAPC)	Isolation Agar	20 CFU/gm	NMT 10,000,000 CFU/gm	< LOQ	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	< LOQ	PASS
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	< LOQ	PASS
Escherichia coli (E.coli)	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
Salmonella	Isolation Agar	1 CFU/25 gm	Absent in 25 gm	Absent	PASS

Santé Laboratories, LLC - 8201 East Riverside Drive, STE 650, Austin, Texas 78744 USA  
 Email: [Testing@santelabs.com](mailto:Testing@santelabs.com) - Telephone: 512-309-5830 - Website: [www.santelabs.com](http://www.santelabs.com)

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HEAVY METALS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	0.01 mcg/g	NMT 1.000 mcg/g	< LOQ	PASS
Mercury	USP <232> <233> by ICP-MS	0.005 mcg/g	NMT 0.500 mcg/g	< LOQ	PASS
Arsenic	USP <232> <233> by ICP-MS	0.01 mcg/g	NMT 1.500 mcg/g	< LOQ	PASS
Cadmium	USP <232> <233> by ICP-MS	0.01 mcg/g	NMT 0.300 mcg/g	< LOQ	PASS
Nickel	USP <232> <233> by ICP-MS	0.05 mcg/g	NMT 200.000 mcg/g	< LOQ	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
<b>Santé Laboratories</b> 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	<b>Santé Sample ID:</b> 223308 <b>Receipt Date:</b> 08/05/2022 / 1:00 PM CST / M. Husain <b>Receipt Condition:</b> Good <b>Analysis Start Date:</b> 08/08/2022

ADDITIONAL REPORT NOTES
<p>The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. <b>Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP &lt;232&gt;. Microbiological specifications follow AHPA guidelines for botanical extracts. *Density = 1.035 g/mL</b></p> <p>©2020 Santé Laboratories, LLC – All Rights Reserved</p>

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	08/12/2022	Initial Release

PRODUCT SAMPLE / IMAGE


REVIEWED AND APPROVED BY
<p>DocuSigned by: <i>Brian Sloat</i> TDA7685D63C740B...</p> <p>12 August 2022   6:05:50 PM PDT Date</p> <p><i>DD-MM-YY</i></p> <p><b>Brian Sloat, Ph.D.</b> Chief Scientific Officer / Quality Manager Santé Laboratories</p>