

CERTIFICATE OF ANALYSIS

STATUS: RELEASED REVISION: 00

DATE: 02/13/2023

Analysis ID No.	230045
TDA License No.	2020002
ISO/IEC No.	1055838
Purchase Order:	20230011
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CUSTOMER INFORMATION	SAMPLE INFORMATION	
Client Name:	Submitted Sample Name:	
Bumble Bee Botanicals	12312203	
Address:	Submitted Sample Lot:	
8047 La Mesa Blvd Unit C, La Mesa 91942	N/A	
Phone Number:	Submitted Sample Description:	
619-500-2463	Grn Pwdr in Transparent / Black Pouch; Stored at Rm Temp	
Contact Name / Email:	Submitted Sample Product Type / Matrix:	
Andrew Graham / Sales@bumblebeesd.com	Kratom Leaf / Powder	

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	1.563 w/w% 15.628 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.308 w/w% 3.079 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.237 w/w% 2.374 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.268 w/w% 2.685 mg/g	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: 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	< 0.010 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.010 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.010 w/w%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.377 w/w% 23.766 mg/g	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	1,710 CFU/gm	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	20 CFU/gm	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



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	HEAVY METALS ASSAY				
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1000 ppb	550.1 ppb	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	17.8 ppb	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1500 ppb	168.6 ppb	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	22.7 ppb	PASS
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 200,000 ppb	3,994.7 ppb	PASS

TESTING FACILITY INFORMATION SAMPLE INFORMATION	
Santé Laboratories	Santé Sample ID: 230045
8201 East Riverside Drive, STE 650	Receipt Date: 02/08/23 / 13:30 PM CST / M Husain
Austin, Texas 78744 USA	Receipt Condition: Good Analysis Start Date: 02/08/23

ADDITIONAL REPORT NOTES

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. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications follow AHPA guidelines for botanical ingredients (non-extract). ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY			
Version	Effective Date Summary of Changes		
00	02/13/23	Initial Release	



REVIEWED AND APPROVED BY

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13 February 2023 | 02:22:15 PM PST 0

Date

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