

CERTIFICATE OF ANALYSIS

SAMPLE NAME: MITGO BLACK GEL POUCH (12 PACK)

SAMPLE CODE: DTS-240325-022

CLIENT: MIT45

BATCH RESULT: PASS



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Traverse City, MI 49686
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MATRIX NAME: Edible Solid - Honey
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Tue, Mar 26, 2024
PUBLISHED DATE: Fri, Mar 29, 2024
BATCH CODE: 00-0933-1
BATCH SIZE: 0
SAMPLE SIZE: 6U

TOTAL MAJOR ALKALOIDS 0.570%

TOTAL MINOR ALKALOIDS ND

MITRAGYNINE 0.537%



ALKU Kratom Alkaloids High Level	ALKL Kratom Alkaloids Low Level	SAL Salmonella 25g qPCR	ECOLI Total E. Coli & Coliforms Plate	TAMC Total Aerobic Bacteria Plate
DEN Density of Liquids	SAUR Staphylococcus aureus Plate	AWA Water Activity	HVMET Heavy Metals 4	TYMFD Total Yeast & Mold Plate
VITB1 Vitamin B1 (Thiamine)		DNACL Sodium Chloride		

Leslie Varela

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Friday, Mar 29, 2024

Douglas Smith

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Friday, Mar 29, 2024

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LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD

ALKU-DTS-240325-022-01 - MON, MAR 25, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	0.570 %	N/A			N/A
Mitragynine	0.537 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.020 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.01 %	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.003 %	N/A	0.3 ug/g	0.5 ug/g	N/A

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ

AKLI-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A

LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS

SAL-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	N/A			N/A

LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS

ECOLI-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N/A

LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS

TAMC-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	100 CFU/g	100 CFU/g	N/A

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.304 g/mL	N/A	N/A	N/A	N/A

LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS

SAUR-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	N/A	10 CFU/g	10 CFU/g	N/A

LAB-TM-009 - DETERMINATION OF WATER ACTIVITY

AWA-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Water Activity	0.638 aw	N/A			N/A



LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HVMET-DTS-240325-022-01 - MON, MAR 25, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Cadmium	ND	N/A	0.6272 ug/kg	2.0907 ug/kg	N/A
Lead	0.008 ug/g	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Mercury	0.002 ug/g	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-240325-022-01 - MON, MAR 25, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A

LAB-TM-093 - DETERMINATION OF VITAMIN B1, C, AND B3 BY UHPLC/DAD
VITB1-DTS-240325-022-01 - MON, MAR 25, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Vitamin B1 (Thiamine)	0.1136 mg/g	N/A	0.01 ug/g	0.5 ug/g	N/A

LAB-TM-107 - DETERMINATION OF SODIUM CHLORIDE IN FOOD
DNACL-DTS-240325-022-01 - WED, MAR 27, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Sodium Chloride	1.4 %	N/A			N/A





Certificate of Analysis

Client Information

MIT45. Inc
380 W Lawndale Drive
South Salt Lake City, UT 84115
USA
866-648-4555

Sample Information

ARL ID: 737539
Date Received: 4/3/2024
Date Tested: 4/4/2024
Description: MITgo - Black Gel 12 Pack (Part # 30090)
Lot#: 00-0933-1
Serving Size: 4.8 g

Results

Analysis	Method	[†] MDL / LOQ	Specification	Results	UOM	Lab ID
Vitamin B1 (Thiamin)	Calculation ARL 2.011	0.02	Record Only	0.61 ^{Note 1}	mg/Serving	1
Vitamin B1 (Thiamin HCL)	ARL 2.011	0.02	Record Only	0.68	mg/Serving	1
Vitamin B6 (Pyridoxine HCl)	ARL 2.011	0.01	Record Only	1.41	mg/Serving	1
Vitamin B12 (Methylcobalamin)(HPLC)	ARL 2.130	18.2	Record Only	210.3	mcg/Serving	1

Notes:

1. ARL vitamin results are reported as the form of the vitamin specified in the parentheses of the analysis name.

[†]Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected", it means any visible growth was below this limit.

[†]Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

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