TL LABORATORIES

Certificate of Analysis

T412308

Global Widget
Client Lic#:
8419 Sunstate St. Tampa, FL 33634

Eugene Choi - Global Widget Tampa

Compliance for Retail: **PASS**

Green Roads Kavaton Gummies Fijian Fruit Punch PKG P240814

Sample ID: T412308-01 CCB ID:MFG 240562
Matrix: Edibles

Total Sample Received: 165g
Total Units Received: 3
Unit Weight: 55g

Date Sampled:	12/12/2024
Date Received:	12/12/2024
Date Reported:	12/16/2024

Foreign Materials	Heavy Metals	Microbials	Moisture Content	Mycotoxins
PASS	PASS	PASS	NOT TESTED	PASS
Pesticides	**Residual Solvents**	**Terpenes**	**Water Activity**	**Vitamins Supplements**
PASS	PASS	TESTED	PASS	NOT TESTED

Analysis Information

Test Method: ACCU LAB SOP Batch: B24K012 Prep Date: 12/16/24 10:00

Vitamin/Supplement Assay

Analyte	Results	Units	Dilution	LOQ	CAS #	Analyzed	Analyst	Instrument	Qual
(±)-Kavain	**0.515**	mg/g	10	0.0200	3155-48-4	12/23/2024	DH	LC-MS-MS (D)	
Flavokavain A	**12.7**	µg/g	1	2.00	3420-72-2	12/23/2024	DH	LC-MS-MS (D)	
Desmethoxyyangonin	**0.224**	mg/g	10	0.0200	15345-89-8	12/23/2024	DH	LC-MS-MS (D)	
Flavokavain B	**47.9**	µg/g	1	2.00	1775-97-9	12/23/2024	DH	LC-MS-MS (D)	
Dihydrokavain	**0.425**	mg/g	10	0.100	587-63-3	12/23/2024	DH	LC-MS-MS (D)	
Flavokavain C	ND	µg/g	1	2.00	37308-75-1	12/23/2024	DH	LC-MS-MS (D)	
Dihydromethysticin	**1.40**	mg/g	10	0.100	19902-91-1	12/23/2024	DH	LC-MS-MS (D)	
Methysticin	**0.486**	mg/g	10	0.0200	495-85-2	12/23/2024	DH	LC-MS-MS (D)	
Total Kavalactones	**3.48**	mg/g	10			12/23/2024	DH	LC-MS-MS (D)	
Yangonin	**0.430**	mg/g	10	0.0200	500-62-9	12/23/2024	DH	LC-MS-MS (D)	

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Pesticides

Pass

Prep Mehtod: SOP 1363	Batch	Instrument	Analyzed	Analyst	Prepped	Prepped By	Specimen Wt. (g)	Analysis SOP
Pesticide LCQQQ	2450121	LCMSMS	12/14/2024 1:16:00PM	2670-0754	12/13/2024 9:13:00AM	4599	5.62	SOP1350
* Pesticides GCQQQ	2450122	GCMSMS	12/14/2024 1:23:49AM	0754-2670	12/13/2024 9:17:00AM	4599	5.62	SOP1356

Analyte	DIL	Action Limit	LOD	Results	Status	Analyte	DIL	Action Limi	LOD	Results	Status
		ppb	ppb	ppb				ppb	ppb	ppb	
Abamectin	1	300	30	ND	Pass	Imidacloprid	1	3000	300	ND	Pass
Acephate	1	3000	300	ND	Pass	Kresoxim-methyl	1	1000	100	ND	Pass
Acequinocyl	1	2000	200	ND	Pass	Malathion	1	2000	200	ND	Pass
Acetamiprid	1	3000	300	ND	Pass	Metalaxyl	1	3000	300	ND	Pass
Aldicarb	1	100	10	ND	Pass	Methiocarb	1	100	10	ND	Pass
Azoxystrobin	1	3000	300	ND	Pass	Methomyl	1	100	10	ND	Pass
Bifenazate	1	3000	300	ND	Pass	Mevinphos	1	100	10	ND	Pass
Bifenthrin	1	500	50	ND	Pass	Myclobutanil	1	3000	300	ND	Pass
Boscalid	1	3000	300	ND	Pass	Naled	1	500	50	ND	Pass
Carbaryl	1	500	50	ND	Pass	Oxamyl	1	500	50	ND	Pass
Carbofuran	1	100	10	ND	Pass	Paclobutrazol	1	100	10	ND	Pass
Chlorantraniliprole	1	3000	300	ND	Pass	Permethrin	1	1000	100	ND	Pass
Chlormequat Chloride	1	3000	300	ND	Pass	Phosmet	1	200	20	ND	Pass
Chlorpyrifos	1	100	10	ND	Pass	Piperonyl butoxide	1	3000	300	ND	Pass
Clofentezine	1	500	50	ND	Pass	Prallethrin	1	400	40	ND	Pass
Coumaphos	1	100	10	ND	Pass	Propiconazole	1	1000	100	ND	Pass
Cyfluthrin	1	1000	100	ND	Pass	Propoxur	1	100	10	ND	Pass
Cypermethrin	1	1000	100	ND	Pass	Pyrethrins	1	1000	100	ND	Pass
Daminozide	1	100	10	ND	Pass	Pyridaben	1	3000	300	ND	Pass
Diazinon	1	200	20	ND	Pass	Spinetoram, total	1	3000	300	ND	Pass
Dichlorvos	1	100	10	ND	Pass	Spinosad, total	1	3000	300	ND	Pass
Dimethoate	1	100	10	ND	Pass	Spiromesifen	1	3000	300	ND	Pass
Dimethomorph	1	3000	300	ND	Pass	Spirotetramat	1	3000	300	ND	Pass
Ethoprophos	1	100	10	ND	Pass	Spiroxamine	1	100	10	ND	Pass
Etofenprox	1	100	10	ND	Pass	Tebuconazole	1	1000	100	ND	Pass
Etoxazole	1	1500	150	ND	Pass	Thiacloprid	1	100	10	ND	Pass
Fenhexamid	1	3000	300	ND	Pass	Thiamethoxam	1	1000	100	ND	Pass
Fenoxycarb	1	100	10	ND	Pass	Trifloxystrobin	1	3000	300	ND	Pass
Fenpyroximate	1	2000	200	ND	Pass	Captan*	1	3000	300	ND	Pass
Fipronil	1	100	10	ND	Pass	Chlordane*	1	100	10	ND	Pass
Flonicamid	1	2000	200	ND	Pass	Chlorfenapyr*	1	100	10	ND	Pass
Fludioxonil	1	3000	300	ND	Pass	Methyl parathion*	1	100	10	ND	Pass
Hexythiazox	1	2000	200	ND	Pass	Pentachloronitrobenzene*	1	200	20	ND	Pass
Imazalil	1	100	10	ND	Pass						

LOD = Limit of Detection; ND = Not Detected.
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* - GCMSMS Pesticides

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Mycotoxins — Pass

Date Prepared: 12/13/2024 09:13 Prepped By: 4599 Specimen Wt: 5.62 g
Date Analyzed: 12/13/2024 20:21 Analyzed By: 2670-0754 Instrument: LCMSMS

Lab Batch: 2450121 Prep Method: SOP 1363 Analysis Method: SOP 1350

Analyte	DIL	Action Limit	LOD	Results	Status
		ppb	ppb	ppb	
Aflatoxin B1	1	20.0	2	ND	Pass
Aflatoxin B2	1	20.0	2	ND	Pass
Aflatoxin G1	1	20.0	2	ND	Pass
Aflatoxin G2	1	20.0	2	ND	Pass
Ochratoxin A	1	20.0	2	ND	Pass

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Microbials — Pass

Date Prepared: 12/12/2024 15:10 Prep ID: 1093 Specimen Wt: 1.00 g
Date Analyzed: 12/13/2024 14:44 Analyst ID: 1093 Instrument: qPCR

Lab Batch: 2450090 Analysis Method: SOP1353/1364/1352

Analyte	Action Limit	LOD	Results	Status
	cfu/g	cfu/g	cfu/g	
Aspergillus Flavus	1	1	Absent in 1 gram	Pass
Aspergillus Fumigatus	1	1	Absent in 1 gram	Pass
Aspergillus Niger	1	1	Absent in 1 gram	Pass
Aspergillus Terreus	1	1	Absent in 1 gram	Pass
Salmonella	1	1	Absent in 1 gram	Pass
Shiga Toxin producing E. Coli	1	1	Absent in 1 gram	Pass
Total Yeast and Mold	100000	10000	ND	Pass

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Foreign Materials — Pass

Date Prepared: 12/12/2024 13:43 Prep ID: 3780 Instrument: Visual Inspection
Date Analyzed: 12/12/2024 14:46 Analyst ID: 1150

Lab Batch: 2450100 Analysis Method: SOP1359

Analyte	Action Limit (% by wt)	Results	Status
Foreign Material	1.00	ND	Pass
Feces	0.500	ND	Pass

ND = Not Detected.
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Heavy Metals — Pass

Date Prepared: 12/13/2024 15:17 Prepped By: 1094 Specimen Wt: 0.56 g
Date Analyzed: 12/14/2024 14:17 Analyzed By: 1094 Instrument: ICPMS

Lab Batch: 2450149 Prep Method: SOP 1362 Analysis Method: SOP1358

Analyte	DIL	Action Limit	LOD	Results	Status
		ppb	ppb	ppb	
Arsenic	1	1500	150	ND	Pass
Cadmium	1	500	50.0	ND	Pass
Lead	1	500	50.0	ND	Pass
Mercury	1	3000	300	ND	Pass
Total				0.00	

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Water Activity — Pass

Date Prepared: 12/12/2024 14:43 Prep ID: 3780 Specimen Wt: 5.08 g
Date Analyzed: 12/12/2024 14:43 Analyst ID: 1150 Instrument: Water Activity Meter

Lab Batch: 2450100 Analysis Method: SOP1355

Analyte	Action Limit	Result	Status
	aW	aW	
Water Activity	0.85	0.51	Pass

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Residual Solvents — Pass

Date Prepared: 12/13/2024 16:15 | Prep ID: 2447 | Specimen Wt: 0.05 g
Date Analyzed: 12/14/2024 02:47 | Analyst ID: 2447 | Instrument: GCMSMS Headspace
Lab Batch: 2450130 | Analysis Method: SOP1361

Analyte	DIL	Action Limit	LOD	Results	Status
		ppm	ppm	ppm	
1,1-Dichloroethene	1	8.00	0.800	ND	Pass
1,2-Dichloroethane	1	5.00	0.500	ND	Pass
Acetone	1	5000	500	ND	Pass
Acetonitrile	1	410	41.0	ND	Pass
Benzene	1	2.00	0.200	ND	Pass
Butane	1	5000	500	ND	Pass
Chloroform	1	60.0	6.00	ND	Pass
Ethanol	1	5000	500	ND	Pass
Ethyl acetate	1	5000	500	ND	Pass
Ethyl ether	1	5000	500	ND	Pass
Ethylene oxide	1	10.0	1.00	ND	Pass
Heptane	1	5000	500	ND	Pass
Hexane	1	290	29.0	ND	Pass
Isopropyl alcohol	1	5000	500	ND	Pass
Methanol	1	3000	300	ND	Pass
Methylene chloride	1	600	60.0	ND	Pass
Pentane	1	5000	500	ND	Pass
Propane	1	5000	500	ND	Pass
Toluene	1	890	89.0	ND	Pass
Xylenes, total	1	2170	217	ND	Pass
Trichloroethylene	1	80.0	8.00	ND	Pass

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Terpenes Summary

Date Prepared: 12/13/2024 09:08 | Prep ID: 4599 | Specimen Wt: 5.66 g
Date Analyzed: 12/15/2024 15:32 | Analyzed ID: 2447 | Instrument: GCMS
Lab Batch: 2450120 | Prep/Analysis Method: SOP1360

Analyte	Dilution	LOD	Results	
		%	%	
D-Limonene	1	0.00221	0.0209	
3-Carene (+)-	1	0.00221	ND	
alpha Bisabolol, L	1	0.00221	ND	
alpha-Cedrene	1	0.00221	ND	
alpha-Fenchyl alcohol, (+)-	1	0.00221	ND	
alpha-Humulene	1	0.00221	ND	
alpha-Phellandrene	1	0.00221	ND	
alpha-Pinene	1	0.00221	ND	
alpha-Terpinene	1	0.00221	ND	
alpha-Terpineol	1	0.00221	ND	
beta-Myrcene	1	0.00221	ND	
beta-Ocimene	1	0.00221	ND	
beta-Pinene	1	0.00221	ND	
Borneol	1	0.00221	ND	
Camphene	1	0.00221	ND	
Camphor	1	0.00221	ND	
Caryophyllene Oxide	1	0.00221	ND	
Cedrol	1	0.00221	ND	
E-Caryophyllene	1	0.00221	ND	
E-Nerolidol	1	0.00221	ND	
Eucalyptol	1	0.00221	ND	
Farnesene	1	0.00221	ND	
Fenchone	1	0.00221	ND	
gamma-Terpinene	1	0.00221	ND	
Geraniol	1	0.00221	ND	
Geranyl Acetate	1	0.00221	ND	
Guaiol	1	0.00221	ND	
Isoborneol	1	0.00221	ND	
Isopulegol	1	0.00221	ND	
Linalool	1	0.00221	ND	
Menthol	1	0.00221	ND	
Nerol	1	0.00221	ND	
p-Cymene	1	0.00221	ND	
Pulegone	1	0.00221	ND	
Sabinene	1	0.00221	ND	
Sabinene hydrate	1	0.00221	ND	
Terpinolene	1	0.00221	ND	
Valencene	1	0.00221	ND	
Z-Nerolidol	1	0.00221	ND	
Total Terpenes			0.021	11.55 mg/Unit

Terpene results are provided for informational purposes only.
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