Steep Hill Massachusetts

Analytical Report





Steep Hill Massachusetts

Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies

[H] Cannabinoid Profile	Metro	c ID Tag: 1A40A030	00003EA000333309	Analysis Date: 01/05/24
Datafile: REVP-33309_1A40A03000003EA00	0333309_498727_F	POTENCY_D_202401	02_ML_01_122024_1	4_01، Analyst(s): NG
Cannabinoids were analyzed using a High Perf Following SHMA SOP-002-GA; SOP-025-GA; SC		omatograph equippe	ed with a Photodiode A	Array Detector (HPLC-PDA)
<u>Cannabinoid</u>	<u>LOQ (%)</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Result (mg/serv)</u>
Tetrahydrocannabinolic acid (THCA)	0.0068	ND	ND	ND
Δ 9-Tetrahydrocannabinol (Δ 9-THC)	0.0068	0.1466	1.466	5.278
Cannabidiolic acid (CBDA)	0.0071	ND	ND	ND
Cannabidiol (CBD)	0.0067	0.1486	1.486	5.350
Cannabinol (CBN)	0.0027	0.0030	0.030	0.108
Cannabichromene (CBC)	0.0027	BLQ	BLQ	BLQ

0.0028	ND	ND	ND
0.0027	0.0079	0.079	0.284
0.0027	BLQ	BLQ	BLQ
0.0027	BLQ	BLQ	BLQ
0.0027	ND	ND	ND
-	0.3061	3.061	11.020
	0.0027 0.0027 0.0027 0.0027 0.0027	0.0027 0.0079 0.0027 BLQ 0.0027 BLQ 0.0027 ND	0.0027 0.0079 0.079 0.0027 BLQ BLQ 0.0027 BLQ BLQ 0.0027 ND ND

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

I] Heavy Metals Analysis		Met	trc ID Tag:	NT	Analysis Da	te: NT
Datafile: NT					Anal	yst(s): NT
Heavy Metals were mea GA; SOP-072-GA.	sured using an Indu	ctively Coupled Plas	ma Mass Spectromet	er (ICP-MS) follo	wing SHMA SOP-02:	1-GA; SOP-061
	LOQ	<u>Result</u>	<u>All Us</u>	es	Ingestion	Only
<u>Analyte</u>	<u>(ppb)</u>	<u>(ppb)</u>	<u>Limit (ppb)</u>	Finding	<u>Limit (ppb)</u>	Finding
Total Arsenic	NT	NT	200.0	NT	1500.0	NT
Cadmium	NT	NT	200.0	NT	500.0	NT
Total Mercury	NT	NT	100.0	NT	1500.0	NT
Lead	NT	NT	500.0	NT	1000.0	NT

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

[J] Microbial Contaminants Analysis

Metrc ID Tag: 1A40A03000003EA000333309

Analyst(s)

Microbial contaminants were quantified using a 3M Petrifilm method and reported as colony forming units per gram (CFU/g). Samples were extracted and analyzed following SHMA SOP-700-MA.

	<u>Result</u>				
Analyte	<u>(CFU/g)</u>	Datafile	Analysis Date	<u>Limit (CFU/g)</u>	Finding
Total Coliforms (CC)	ND	PLA-20240102_AP_02	01/04/24	1.00E+03	Pass
Total Yeast and Mold (YM)	ND	PLA-20240102_AP_02	01/04/24	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PLA-20240102_AP_02	01/04/24	1.00E+05	Pass
Enterobacteriaceae (EB)	ND	PLA-20240102_AP_02	01/04/24	1.00E+03	Pass
Note: "NT": Not Tested; "ND" Not Detected. Enter	obacteriaceae is	the family of bacteria also k	known as Bile-Tolerar	nt Gram-Negative bact	teria.

Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies



Steep Hill Massachusetts

K] Pathogenic Bacteria Result	ts I	Metrc ID Tag:	1A40A03000003	EA000333309	Analysis Date	: 01/04/2
atafile: PCR-20240102_D2					Analys	st(s): JT
•	EC E. coli and Salmonella spp i 3 hours prior to DNA extraction	•		0	• •	
Analyta	Pocult	٨٣٩	lycic Data	Limi	+ 1	Finding
<u>Analyte</u> STEC E. coli	<u>Result</u> Not Detected		Ilysis Date 1/04/24	<u>Limi</u> Detection		Finding Pass

 [L] Mycotoxins Results
 Metrc ID Tag: 1A40A03000003EA000333309
 Analysis Date: 01/06/24

 Datafile:
 (Path: D:\Analyst Data\Projects\SHMA 2023\PGMY_VEA\Data\DataPGMY_B_20240103_BJ_02.w
 Analyst(s):
 SD

Mycotoxins were measured using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (HPLC-MS/MS) following SHMA SOP-002-GA; SOP-062-GA; SOP-070-GA.

Analyte	LOQ (ppb)	<u>Result (ppb)</u>	<u>Limit (ppb)</u>	Finding
Aflatoxin B1	6.0	ND	-	Tested
Aflatoxin B2	6.0	ND	-	Tested
Aflatoxin G1	6.0	ND	-	Tested
Aflatoxin G2	6.0	ND	-	Tested
Ochratoxin A	6.0	ND	-	Tested
Total Mycotoxins	-	ND	20.0	Pass

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

M] Residual Solvent Results		Metrc ID Tag:	NT	Analysis Date:	NT
Datafile: NT				Analyst(s):	NT
Residual Solvents were measured	d using a Headspace Samp	oler coupled to a Gas Chror	matograph equipped w	vith a tandem Mass	
Spectrometer (HS-GC-MS/MS) fo	llowing SHMA SOP-011-G	A; SOP-067-GA; SOP-010-0	GA.		
Analyte	LOQ (ppm)	<u>Result (ppm)</u>	<u>Limit (ppm)</u>	Finding	
Ethanol	NT	NT	NT	NT	
Propane	NT	NT	NT	NT	
iso-Butane	NT	NT	NT	NT	
n-Butane	NT	NT	NT	NT	
n-Pentane	NT	NT	NT	NT	
Acetone	NT	NT	NT	NT	



Steep Hill Massachusetts

Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies

[N] Pesticides Results		Metrc ID Tag:	: NT	Analysis Date:	NT
Datafile: NT				Analyst(s):	NT
Pesticides were measure following SHMA SOP-002	0 0	1 0 1	bh equipped with a tanden	n Mass Spectrometer (HPLC N	/IS/MS
<u>Analyte</u>	LOQ (ppb)	Result (ppb)	<u>Limit (ppb)</u>	Finding	g
Bifenazate	NT	NT	NT	NT	
Bifenthrin	NT	NT	NT	NT	
Cyfluthrin	NT	NT	NT	NT	
Etoxazole	NT	NT	NT	NT	
Imazalil	NT	NT	NT	NT	
Imidacloprid	NT	NT	NT	NT	
Myclobutanil	NT	NT	NT	NT	
Spiromesifen	NT	NT	NT	NT	
Trifloxystrobin	NT	NT	NT	NT	

 [O] Vitamin E Acetate Results
 Metrc ID Tag:
 NT
 Analysis Date:
 NT

 Datafile:
 NT
 Analysis Date:
 NT
 Analysis Date:
 NT

 Datafile:
 NT
 Analysis Date:
 NT
 Analysis Date:
 NT

 Vitamin E Acetate was measured using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (HPLC MS/MS) following SHMA SOP-002-GA; SOP-062-MA; SOP-070-MA.
 Eimit (ppb)
 Finding

 Mainter
 LOD (ppb)
 Result (ppb)
 Limit (ppb)
 Finding

 Vitamin E Acetate
 NT
 NT

Note "NT": Not Tested; "LOD": Limit of Detection

[P] Terpenes Profile	Metrc ID Tag:	NT	Analysis Date:	NT
Datafile: NT			Analyst(s):	NT

Terpenes were measured using liquid autosampler injection onto a Gas Chromatograph equipped with a tandem Mass Spectrometer (HS-GC-MS/MS) following SHMA SOP-011-GA; SOP-067-GA; SOP-010-GA.

<u>Terpenes</u>	<u>LOD (%)</u>	Result (%)	<u>Result (mg/g)</u>
alpha-Pinene	NT	NT	NT
beta-Pinene	NT	NT	NT
beta-Myrcene	NT	NT	NT
Limonene	NT	NT	NT
Terpinolene	NT	NT	NT
Linalool	NT	NT	NT
Caryophyllene	NT	NT	NT
alpha-Humulene	NT	NT	NT
Caryophyllene oxide	NT	NT	NT
alpha-Bisabolol	NT	NT	NT
Total Terpenes	-	-	-



Steep Hill Massachusetts

Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies

QA/QC Section

Notes: Quality control checks were prep	ared at known concentrations	and run alongside batch sample	es.
<u>Cannabinoid</u>	Measured Conc. (mg/mL)	Expected Conc. (mg/mL)	<u>% Recovery</u>
Tetrahydrocannabinolic acid (THCA)	0.049	0.050	97%
∆9-Tetrahydrocannabinol (∆9-THC)	0.047	0.050	95%
Cannabidiolic acid (CBDA)	0.048	0.050	95%
Cannabidiol (CBD)	0.048	0.050	96%
Cannabinol (CBN)	0.048	0.050	95%
Cannabichromene (CBC)	0.047	0.050	95%
Cannabigerolic acid (CBGA)	0.046	0.050	91%
Cannabigerol (CBG)	0.047	0.050	93%
Cannabidivarin (CBDV)	0.048	0.050	96%
Tetrahydrocannabivarin (THCV)	0.048	0.050	96%
Δ 8-Tetrahydrocannabinol (Δ 8-THC)	0.048	0.050	97%

Datafile: NT			Analyst(s):	NT
QC Notes: Quality control checks were pr	epared at known concentrations	and run alongside batch sampl	es.	
	Measured Conc.	Expected Conc.		
Analyte	<u>(ppb)</u>	<u>(ppb)</u>	<u>% Recovery</u>	
Total Arsenic	NT	NT	NT	
Cadmium	NT	NT	NT	
Total Mercury	NT	NT	NT	
Lead	NT	NT	NT	

6] Microbial Contaminants QC		Analysis Date:	1/4/202
		Analy	st(s): J
each run to assess the succe	ess of sample plating.		
	see et sample plating.		
	Positive Control	Negative	
Datafile	<u>Result</u>	Control Result	Finding
PLA-20240102_AP_02	Detected	Not Detected	Pass
PLA-20240102_AP_02	Detected	Not Detected	Pass
PLA-20240102_AP_02	Detected	Not Detected	Pass
PLA-20240102_AP_02	Detected	Not Detected	Pass
	Detected	Not Detected	
	<u>Datafile</u> PLA-20240102_AP_02 PLA-20240102_AP_02 PLA-20240102_AP_02	DatafileResultPLA-20240102_AP_02DetectedPLA-20240102_AP_02DetectedPLA-20240102_AP_02DetectedPLA-20240102_AP_02Detected	Positive ControlNegativeDatafileResultControl ResultPLA-20240102_AP_02DetectedNot DetectedPLA-20240102_AP_02DetectedNot DetectedPLA-20240102_AP_02DetectedNot DetectedPLA-20240102_AP_02DetectedNot DetectedPLA-20240102_AP_02DetectedNot DetectedPLA-20240102_AP_02DetectedNot Detected



Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies

T] Pathogenic Bacteria QC			Analysis Date: Analysi	1/4/2024 t(s): JT	
C Notes: Quality control checks ar	re included with each run to assess t	the success of instrument run and	d polymerase chain r	eaction.	
			N I		
Target	Datafile	Positive Control Cq	<u>Negative</u> <u>Control Cq</u> <u>Finding</u>		
STEC E. coli	PCR-20240102_D2	13.29	<u>Control Cq</u> <u>Finding</u> N/A Pass N/A Pass		
Salmonella spp.	PCR-20240102_D2	22.31			
Expected Value		Cq ≤ 35	Cq>35 or N/A	1 455	
ote: "NT": Not Tested; "ND": Not	Detected.				
J] Mycotoxins QC			Analysis Date:	01/06/2	
	Projects\SHMA 2023\PGMY_VEA\[Data\DataPGMV_B_20240103_B			
		bata (Batal Gilli <u>_</u> B_20240103_B			
C Notes: Quality control checks w	vere prepared at known concentration	ons and run alongside batch sam	ples.		
Analyte	Measured Conc. (ppb)	Expected Conc. (ppb)	<u>% Recov</u>	<u>ery</u>	
Aflatoxin B1	1.0	0.8	121%		
Aflatoxin B2	0.7	0.8	89%		
Aflatoxin G1	0.6	0.8	73%		
Aflatoxin G2	0.6	0.8	78%		
Ochratoxin A	0.7	0.8	86%		
Datafile: NT C Notes: Quality control checks w	vere prepared at known concentration	ons and run alongside batch sam	Analyst ples.	t(s): NT	
Analyte	Measured Conc. (ppm)	Expected Conc. (ppm)	<u>% Recovery</u>		
Ethanol	NT	NT	NT		
iso-Butane	NT	NT	NT		
Propane	NT	NT	NT	NT	
n-Butane		NT	NT		
ii-Dutane	NT		NT		
n-Pentane	NI	NT	NT NT		
n-Pentane Acetone	NT	NT	NT	: NT	
n-Pentane Acetone N] Pesticides QC	NT	NT	NT NT		
n-Pentane Acetone V] Pesticides QC Datafile: NT	NT	NT NT	NT NT Analysis Date: Analysi		
n-Pentane Acetone V] Pesticides QC Datafile: NT	NT NT vere prepared at known concentration	NT NT ons and run alongside batch samp	NT NT Analysis Date: Analysi		
n-Pentane Acetone V] Pesticides QC Datafile: NT C Notes: Quality control checks w	NT NT vere prepared at known concentration	NT NT ons and run alongside batch samp	NT NT Analysis Date: Analyst ples.	t(s): NT	
n-Pentane Acetone V] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT	NT NT ons and run alongside batch samp <u>Expected Conc (ppb)</u> % I NT	NT NT Analysis Date: Analysi ples. Recovery NT	t(s): NT <u>Finding</u> NT	
n-Pentane Acetone V] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate Bifenthrin	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT	NT NT ons and run alongside batch samp <u>Expected Conc (ppb)</u> % I NT NT	NT NT Analysis Date: Analysi ples. Ples. Recovery NT NT	t(s): NT <u>Finding</u> NT NT	
n-Pentane Acetone V] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate Bifenthrin Cyfluthrin	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT	NT NT ons and run alongside batch samp <u>Expected Conc (ppb)</u> % I NT NT NT	NT NT Analysis Date: Analysi ples. ples. Recovery NT NT NT	t(s): NT <u>Finding</u> NT NT NT	
n-Pentane Acetone V] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate Bifenthrin Cyfluthrin Etoxazole	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT NT NT	NT NT ons and run alongside batch samp <u>Expected Conc (ppb)</u> % I NT NT NT NT NT	NT NT Analysis Date: Analysi ples. ples. Recovery NT NT NT NT NT	t(s): NT <u>Finding</u> NT NT NT NT	
n-Pentane Acetone W] Pesticides QC Datafile: NT C Notes: Quality control checks w Analyte Bifenazate Bifenthrin Cyfluthrin Etoxazole Imazalil	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT NT NT NT NT	NT NT ons and run alongside batch samp Expected Conc (ppb) % I NT NT NT NT NT NT	NT NT Analysis Date: Analysis ples. ples. Recovery NT NT NT NT NT NT	t(s): NT Finding NT NT NT NT NT	
n-Pentane Acetone W] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate Bifenthrin Cyfluthrin Etoxazole Imazalil Imidacloprid	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT NT NT NT NT NT	NT NT ons and run alongside batch samp Expected Conc (ppb) % I NT NT NT NT NT NT NT NT NT	NT Analysis Date: Analysis ples. Ples. Recovery NT NT NT NT NT NT NT NT	t(s): NT Finding NT NT NT NT NT NT	
n-Pentane Acetone W] Pesticides QC Datafile: NT C Notes: Quality control checks w <u>Analyte</u> Bifenazate Bifenthrin Cyfluthrin Etoxazole Imazalil Imidacloprid Myclobutanil	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT NT NT NT NT NT NT NT	NT NT ons and run alongside batch samp Expected Conc (ppb) % I NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT Analysis Date: Analysis ples. ples. Recovery NT NT NT NT NT NT NT NT NT NT	t(s): NT Finding NT NT NT NT NT NT NT	
n-Pentane Acetone W] Pesticides QC Datafile: NT C Notes: Quality control checks w Analyte Bifenazate Bifenthrin Cyfluthrin Etoxazole Imazalil Imidacloprid	NT NT vere prepared at known concentration <u>Measured Conc (ppb)</u> NT NT NT NT NT NT NT NT NT	NT NT ons and run alongside batch samp Expected Conc (ppb) % I NT NT NT NT NT NT NT NT NT	NT Analysis Date: Analysis ples. Ples. Recovery NT NT NT NT NT NT NT NT	t(s): NT Finding NT NT NT NT NT NT	



Item Name: KIVA Camino Yuzu Lemon (1:1 CBD:THC) Gummies

[X] Vitamin E Acetate QC			Analysis Date:	NT	
Datafile: NT			Analyst(s):	NT	
QC Notes: Quality control checks were	prepared at known concentration	s and run alongside batch sam	nles		
de Notes. Quanty control enceks were			pics.		
Analyte	Observed Result	Expected Result	Einding	Finding	
Analyte	Objerved Result	Expected Result	rinuing		

- End of Analytical Report -