Analytical Report

[A] 40 Speen St., Suite 301			SHMA Report ID:	SIR5-34992
Framingham, MA 01701			Report Submittee	d: 2/12/2024
Lab: 508-465-3470 email: lab-ma@greer	ianalyticsllc.com			
[B] Client Info		[0	C] Sample Identification	
Sira Naturals	METRC B	atch ID:	013024LBDRWP27	7
13 Commercial Way	METRC Sar	nple ID:	1A40A030000C4190000	34992
Milford, MA 01757	METRC So	urce ID:	1A40A030000C4190000	34990
License: MP281613				
Metrc Manifest: 2063127	ME B	atch ID:	NA	
Date Received: 2/6/2024				
[D] Sample Proper	ties		[E] Product Characteriz	ation
Sample Weight (g):	5.0	Productio	on Stage: Cannabis Resi	n & Concentrates
Serving Size (g):	NA	Produ	ct Class: Cond	centrate
		Ingest	ion Only:	
		Extraction	Solvent: Propar	ne, Butane
		Reta	nil Name: Live Badd	er - WAP #27
[F] Results for Requested Analy	ses	Y = Testec	I "-" = Not Tested P = P	ass F = Fail
Cannabinoid Y Terpene Profile Y Profile	Y Heavy Metals	P Residu Solven	P Pesticides	- Total Yeast and Mold
Mycotoxins P Pathogenic Bacteria	P Total Coliforms	P Total Aero Bacteri		P Vitamin E - Acetate
	[G] Authorization		
Steep Hill Massachusetts is an Independe Cannabis Control Commission (CCC, # IL for Sampling and Analysis of Finished Mec Dispensaries. Where statements of confo	281277). Analytical m ical Marijuana Produc	nethods and best-pra cts and Marijuana-Int	ctices used are in compliance w fused Products for MA Registere	vith the CCC's Protocol d Medical Marijuana
The net/gross weight of the sample receive pertain to the sample received and relate approval.		-	-	•
		BC-MRA	ACCREDITED ERT #s 4356.04 ; 4356.05	<i>mberly, Ross, PhD</i> Kimberly Ross, PhD Laboratory Director

METRC Sample ID: 1A40A030000C419000034992



Steep Hill Massachusetts

Item Name: Live Badder - WAP #27

H] Cannabinoid Profile Patafile: SIR5-34992_			c ID Tag: 1A40A030 OTENCY_C_202402(nte: 02/08/24 lyst(s): NG
annabinoids were ana bllowing SHMA SOP-00		-	omatograph equippe	d with a Photodiode	Array Detector	(HPLC-PDA)
<u>Cann</u>	<u>abinoid</u>	<u>LOQ (%)</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Result (</u>	mg/serv)
Tetrahydrocannabir	nolic acid (THCA)	0.2014	77.2567	772.567	Ν	/A
Δ 9-Tetrahydrocann	abinol (∆9-THC)	0.2010	6.1462	61.462	Ν	/A
Cannabidiolic acid	(CBDA)	0.2105	ND	ND	Ν	/A
Cannabidiol (CBD)		0.1996	ND	ND	Ν	/A
Cannabinol (CBN)		0.1835	ND	ND	Ν	/A
Cannabichromene	(CBC)	0.1827	ND	ND	Ν	/A
Cannabigerolic acid	l (CBGA)	0.1892	3.8379	38.379	Ν	/A
Cannabigerol (CBG)	0.1816	0.5331	5.331	Ν	/A
Cannabidivarin (CB	DV)	0.1829	ND	ND	Ν	/A
Tetrahydrocannabiv	varin (THCV)	0.1830	ND	ND	Ν	/A
∆8-Tetrahydrocann	abinol (∆8-THC)	0.1827	ND	ND	Ν	/A
Total Available Can	nabinoids	-	87.7739	877.739		-
lote "NT": Not Tested; "	ND": Not Detected; "B	LQ": Below limit of Q	uantification.			
I] Heavy Metals Analys	is	Metr	c ID Tag: 1A40A030	000C419000034992	2 Analysis Da	nte: 02/08/2
Datafile: HM_A_20240	207_SD_SCD DIG-202	40206_KAR SIR5-34	1992		Ana	lyst(s): TH
leavy Metals were mea	sured using an Inducti	vely Coupled Plasma	a Mass Spectrometer	(ICP-MS) following	SHMA SOP-021	-GA; SOP-061-
GA; SOP-072-GA.	LOQ	Result	All Use	25	Ingestior	n Only
<u>Analyte</u>	<u>(dqq)</u>	<u>(ppb)</u>	Limit (ppb)	Finding	Limit (ppb)	Finding
Total Arsenic	124.4	BLQ	200.0	Pass	1500.0	NA
Cadmium	82.9	BLQ	200.0	Pass	500.0	NA
Total Mercury	82.9	BLQ	100.0	Pass	1500.0	NA
Lead	207.3	BLQ	500.0	Pass	1000.0	NA
lote "NT": Not Tested; "	ND": Not Detected; "B	LQ": Below limit of Q	uantification.			
J] Microbial Contamina	ants Analvsis	Metr	c ID Tag: 1A40A030	000C419000034992	2	

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.

Analyte	<u>Result</u> (CFU/g)	Datafile	Analysis Date	Limit (CFU/g)	Finding
Total Coliforms (CC)	ND	PLA-20240206_KAR_01	02/10/24	1.00E+02	Pass
Total Yeast and Mold (YM)	ND	PLA-20240206_KAR_01	02/10/24	1.00E+03	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PLA-20240206_KAR_01	02/10/24	1.00E+04	Pass
Enterobacteriaceae (EB)	ND	PLA-20240206_KAR_01	02/10/24	1.00E+02	Pass

METRC Sample ID: 1A40A030000C419000034992

Steep Hill

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Item Name: Live Badder - WAP #27

Datafile: PCR-20240208_KAR_D	02	Metrc ID Tag: 1A40A030000	C419000034992 Anal	ysis Date: 02/10/2 Analyst(s): JT
ne presence or absence of STEC or a minimum of 18 hours prior to				
Analyte	<u>Result</u>	Analysis Date	<u>Limit</u>	Finding
STEC E. coli	Not Detected	02/10/24	Detection in 1.0	g Pass
Salmonella spp.	Not Detected	02/10/24	Detection in 1.0	g Pass
ote: "NT": Not Tested; "ND": Not	Detected.			
] Mycotoxins Results		Metrc ID Tag: 1A40A030000	C419000034992 Anal	ysis Date: 02/10/2
atafile: (Path: D:\Analyst Data	a\Projects\SHMA 2023\PGN			Analyst(s): SD
Illowing SHMA SOP-002-GA; SOF <u>Analyte</u>	P-062-GA; SOP-070-GA. LOQ (ppb)	<u>Result (ppb)</u>	<u>Limit (ppb)</u>	Finding
Aflatoxin B1	20.0	ND	-	Tested
Aflatoxin B2	20.0	ND	-	Tested
Aflatoxin G1	20.0	ND	-	Tested
	20.0	ND	-	Tested
Aflatoxin G2				
Aflatoxin G2 Ochratoxin A	20.0	ND	-	Tested
	20.0	0.0	20.0	Tested Pass
Ochratoxin A Total Mycotoxins		0.0	20.0	
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I		0.0		
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I	- Detected; "BLQ": Below limi	0.0 t of Quantification. Metrc ID Tag: 1A40A030000	C419000034992 Anal	Pass
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I 1] Residual Solvent Results atafile: SIR5-34992_1A40A030 esidual Solvents were measured	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample	0.0 t of Quantification. Metrc ID Tag: 1A40A030000 55159989_RSA-20240208_A er coupled to a Gas Chromatog	C419000034992 Analy D_282024_21.qg(Pass ysis Date: 02/09/2 Analyst(s): AD
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I 1] Residual Solvent Results atafile: SIR5-34992_1A40A030 esidual Solvents were measured	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample	0.0 t of Quantification. Metrc ID Tag: 1A40A030000 55159989_RSA-20240208_A er coupled to a Gas Chromatog	C419000034992 Analy D_282024_21.qg(Pass ysis Date: 02/09/2 Analyst(s): AD
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I 1] Residual Solvent Results atafile: SIR5-34992_1A40A030 esidual Solvents were measured pectrometer (HS-GC-MS/MS) fol	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample llowing SHMA SOP-011-GA;	0.0 t of Quantification. Metrc ID Tag: 1A40A030000 55159989_RSA-20240208_A er coupled to a Gas Chromatog SOP-067-GA; SOP-010-GA.	C419000034992 Anal D_282024_21.qg graph equipped with a tar	Pass ysis Date: 02/09/2 Analyst(s): AD ndem Mass
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I 1] Residual Solvent Results atafile: SIR5-34992_1A40A030 esidual Solvents were measured pectrometer (HS-GC-MS/MS) fol Analyte	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample llowing SHMA SOP-011-GA; LOQ (ppm)	0.0 t of Quantification. Metrc ID Tag: 1A40A030000 55159989_RSA-20240208_A er coupled to a Gas Chromatog SOP-067-GA; SOP-010-GA. <u>Result (ppm)</u>	C419000034992 Analy D_282024_21.qg graph equipped with a tar Limit (ppm)	Pass ysis Date: 02/09/2 Analyst(s): AD ndem Mass <u>Finding</u>
Ochratoxin A Total Mycotoxins ote "NT": Not Tested; "ND": Not I 1] Residual Solvent Results atafile: SIR5-34992_1A40A030 esidual Solvents were measured pectrometer (HS-GC-MS/MS) fol Analyte Ethanol	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample llowing SHMA SOP-011-GA; LOQ (ppm) NT	0.0 t of Quantification. Metrc ID Tag: 1A40A0300000 55159989_RSA-20240208_A er coupled to a Gas Chromatog SOP-067-GA; SOP-010-GA. <u>Result (ppm)</u> NT	C419000034992 Anal D_282024_21.qg graph equipped with a tar Limit (ppm) NT	Pass ysis Date: 02/09/2 Analyst(s): AD ndem Mass <u>Finding</u> NT
Ochratoxin A Total Mycotoxins lote "NT": Not Tested; "ND": Not I M] Residual Solvent Results hatafile: SIR5-34992_1A40A03(esidual Solvents were measured pectrometer (HS-GC-MS/MS) fol Analyte Ethanol Propane	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample llowing SHMA SOP-011-GA; LOQ (ppm) NT 6.21	0.0 t of Quantification. Metrc ID Tag: 1A40A0300004 55159989_RSA-20240208_A4 er coupled to a Gas Chromatog SOP-067-GA; SOP-010-GA. <u>Result (ppm)</u> NT ND	C419000034992 Analy D_282024_21.qg graph equipped with a tar Limit (ppm) NT 12	Pass ysis Date: 02/09/2 Analyst(s): AD ndem Mass <u>Finding</u> NT Pass
Ochratoxin A Total Mycotoxins lote "NT": Not Tested; "ND": Not I M] Residual Solvent Results batafile: SIR5-34992_1A40A030 esidual Solvents were measured pectrometer (HS-GC-MS/MS) fol Analyte Ethanol Propane iso-Butane	- Detected; "BLQ": Below limi 0000C419000034992_5286 d using a Headspace Sample llowing SHMA SOP-011-GA; LOQ (ppm) NT 6.21 NT	0.0 t of Quantification. Metrc ID Tag: 1A40A030000 55159989_RSA-20240208_A er coupled to a Gas Chromatog SOP-067-GA; SOP-010-GA. Result (ppm) NT ND NT	C419000034992 Analy D_282024_21.qg graph equipped with a tar Limit (ppm) NT 12 NT	Pass ysis Date: 02/09/24 Analyst(s): AD ndem Mass <u>Finding</u> NT Pass NT

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



METRC Sample ID: 1A40A030000C419000034992

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[N] Pesticides Results		Metrc ID Tag:	NT	Analysis Date: NT
Datafile: NT				Analyst(s): NT
Pesticides were measured following SHMA SOP-002-	0 0		n equipped with a tandem	Mass Spectrometer (HPLC MS/MS)
<u>Analyte</u>	LOQ (ppb)	<u>Result (ppb)</u>	<u>Limit (ppb)</u>	Finding
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
Note "NT": Not Tested; "BL	.Q": Below Limit of Qua	ntification; "ND": Not Dete	cted	

O] Vitamin E Acetate Resu	lts	Metrc ID Tag:	NT	Analysis Date:	NT
Datafile: NT				Analyst(s):	NT
tamin E Acetate was meas	sured using a High Perfo	ormance Liquid Chromatograp	h equipped with a tand	dem Mass Spectrometer (HF	PLC
IS/MS) following SHMA SO	P-002-GA-SOP-062-MA	. SOP-070-MA			
13/113/1010 Wing 51 11 A 501	1 002 0A, 001 002 MA	, 301 070 114.			
<u>Analyte</u>	LOD (ppb)	Result (ppb)	<u>Limit (ppb)</u>	Findin	g

[P] Terpenes Profile	Metrc ID Tag: 1A40A030000C419000034992	Analysis Date:	2/7/2024
Datafile: SIR5-34992_1A40A030000C419000034	992_528679_717-TP-20230206_SD_262024_32.qgd	Analyst(s	s): BK
Please see last page of report for extended terpene	profile		

METRC Sample ID: 1A40A030000C419000034992



Steep Hill Massachusetts

Item Name: Live Badder - WAP #27

QA/QC Section

] Cannabinoid QC			Analysis Date: 02	/08/24
tafile: LCS_POTENCY_C_20240207_AP	_01_282024_4_004.lcd		Analyst(s):	NG
C Notes: Quality control checks were prep		nd run alongside batch sample		
<u>Cannabinoid</u>	Measured Conc. (mg/mL)	Expected Conc. (mg/mL)	<u>% Recovery</u>	
Tetrahydrocannabinolic acid (THCA)	0.049	0.050	98%	
Δ 9-Tetrahydrocannabinol (Δ 9-THC)	0.049	0.050	98 %	
Cannabidiolic acid (CBDA)	0.049	0.050	99%	
Cannabidiol (CBD)	0.049	0.050	98%	
Cannabinol (CBN)	0.049	0.050	98%	
Cannabichromene (CBC)	0.049	0.050	97%	
Cannabigerolic acid (CBGA)	0.048	0.050	95%	
Cannabigerol (CBG)	0.048	0.050	96%	
Cannabidivarin (CBDV)	0.050	0.050	99%	
Tetrahydrocannabivarin (THCV)	0.049	0.050	99%	
Δ 8-Tetrahydrocannabinol (Δ 8-THC)	0.048	0.050	96%	
] Heavy Metals QC atafile: HM_A_20240207_SD_SCD DIG-2	0240206 KAR LCS		Analysis Date: 02 Analyst(s):	/08/2 [,] TH
C Notes: Quality control checks were prepa		nd run alongside batch sample		
	Measured Conc.	Expected Conc.		
<u>Analyte</u>	(ppb)	(ppb)	<u>% Recovery</u>	
Total Arsenic	3.6	4.0	91%	
Cadmium	3.6	4.0	90 %	
Total Mercury	4.0	4.0	101%	
Lead	3.7	4.0	92%	
] Microbial Contaminants QC			Analysis Date: 2/10	/2024

QC Notes: Quality control checks are included with each run to assess the success of sample plating.

		Positive Control	Negative	
Target	Datafile	<u>Result</u>	Control Result	Finding
Total Coliforms (CC)	PLA-20240206_KAR_01	Detected	Not Detected	Pass
Total Yeast and Mold (YM)	PLA-20240206_KAR_01	Detected	Not Detected	Pass
Total Viable Aerobic Bacteria (TAC)	PLA-20240206_KAR_01	Detected	Not Detected	Pass
Enterobacteriaceae (EB)	PLA-20240206_KAR_01	Detected	Not Detected	Pass
Expected Value		Detected	Not Detected	
Note: "NT": Not Tested; "ND" Not Detected.				

METRC Sample ID: 1A40A030000C419000034992

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T] Pathogenic Bacteria QC			Analysis Date: Ana	: 2/10/2024 alyst(s): JT
C Notes: Quality control checks a	re included with each run to assess th	ne success of instrument run a	ind polymerase cha	in reaction.
<u>Target</u> STEC E. coli Salmonella spp. Expected Value	<u>Datafile</u> PCR-20240208_KAR_ PCR-20240208_KAR_		Negative Control Cq N/A N/A Cq>35 or N/A	Finding Pass Pass
lote: "NT": Not Tested; "ND": Not D	etected.			
U] Mycotoxins QC			Analysis D	ate: 02/10/2
Datafile: (Path: D:\Analyst Data\I	Projects\SHMA 2023\PGMY_VEA\Da	ta\DataPGMY_B_20240207_S	D_01.wiff), (s Ana	alyst(s): SD
2C Notes: Quality control checks w	vere prepared at known concentratior	is and run alongside batch sar	nples.	
<u>Analyte</u>	Measured Conc. (ppb)	Expected Conc. (ppb)	% Re	covery
Aflatoxin B1				7%
Aflatoxin B2	0.5	1.0	5	0%
Aflatoxin G1	0.6	1.0	6	2%
Aflatoxin G2	0.6	1.0		1%
Ochratoxin A	0.5	1.0	5	2%
V] Residual Solvent QC			Analysis D	ate: 02/09/2
Datafile: CCV_LIQ_GAS_2024020	8_AD_02_N\$A_282024_13.qgd		Ana	alyst(s): AD
C Notes: Quality control checks w	vere prepared at known concentratior	is and run alongside batch sar	nples.	
<u>Analyte</u>	Measured Conc. (ppb)	Expected Conc. (ppb)	% Re	<u>covery</u>
Ethanol	NT	NT		NT
iso-Butane	NT	NT		ΝΤ
Propane	0.9	0.7	12	29%
n-Butane	1.4	1.7	8	4%
n-Pentane	NT	NT		ΝТ
Acetone	NT	NT	I	NT
W] Pesticides QC			Analysis D	ate: NT
Datafile: NT			Ana	alyst(s): NT
QC Notes: Quality control checks w	vere prepared at known concentratior	is and run alongside batch sar	nples.	
<u>Analyte</u>	Measured Conc (ppb)	Expected Conc (ppb)	<u>% Recovery</u>	Finding
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

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Vitamin E Acetate QC tafile: NT				Analysis Date: Analyst(s):	NT NT
Notes: Quality control checks w	vere prepared at know	wn concentrations and	d run alongside batch samples.		
<u>Analyte</u> Vitamin E Acetate		<u>ved Result</u> NT	Expected Result NT	<u>Finding</u> NT	
Extended Terpenes Profile tafile: SIR5-34992_1A40A0300	000C419000034992		A40A030000C419000034992 30206 SD 262024 32.agd	Analysis Date: 2/ Analyst(s):	7/202 BK
penes were measured using liqu					
-MS/MS) following SHMA SOP-0	11-GA; SOP-067-GA;	SOP-010-GA.		·	
Terpenes	LOD (%)	<u>Result (%)</u>	Result (mg/g)		
alpha-Pinene	0.0006	0.0934	0.934		
Camphene	0.0004	0.0847	0.847		
beta-Pinene	0.0005	0.1309	1.309		
beta-Myrcene	0.0005	0.5218	5.218		
D-Limonene	0.0017	0.9296	9.296		
Terpinolene Fenchone	0.0001 0.0006	0.0617 0.0442	0.617 0.442		
Linalool	0.0005	1.1447	11.447		
Fenchol	0.0531	0.1742	1.742		
Terpineol	0.0006	0.2504	2.504		
Geraniol	0.0007	0.0819	0.819		
Caryophyllene	0.0009	1.3594	13.594		
alpha-Humulene	0.0006	0.3701	3.701		
Valencene	0.0010	0.1524	1.524		
Caryophyllene oxide	0.0007	0.1160	1.160		
Guaiol	0.0007	0.2893	2.893		
alpha-Bisabolol	0.0007	0.2619	2.619		
Total Terpenes	0.0007	6.0666	60.666		

- End of Analytical Report -