



Sativa Testing Laboratories LLC
 10501 Trade Court
 N. Chester field, VA 23236
 Phone: 804-220-1122

Certificate of Analysis



Client Name: River Organics

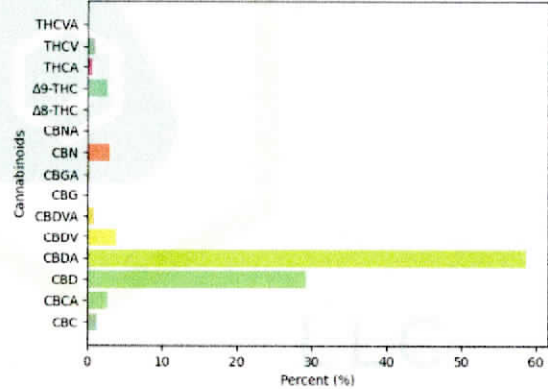


Sample ID: SAM-2021-532
 Sample Name: The Balm Organic CBD Balm
 Sample Matrix: Topical
 Sample Type: Topical
 Sample Date:
 Sampling Method:
 Sampling Technician:
 Client Batch ID:
 Client Sample Size:
 Client State Tracking ID:

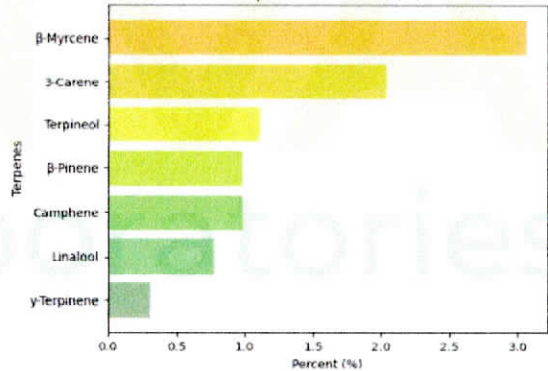
Results Summary

Cannabinoids	TESTED
12/09/2021	
Terpenes	TESTED
12/14/2021	
Residual Solvents	TESTED
12/16/2021	
Pesticides	✓ PASS
12/22/2021	
Heavy Metals	✓ PASS
12/10/2021	
Microbial Impurities	✓ PASS
Mycotoxins	✓ PASS
12/20/2021	

Cannabinoid Distribution (%)



Terpenes Distribution (%)



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Cannabinoids

Date Analyzed: 12/07/2021
Instrument: HPLC-UV/Vis

Date Completed: 12/09/2021
Method: HP001/HP003

Analyst: B T

Cannabinoid	Result (%)	Result (mg/g)	LOQ (mg/g)
CBC	<LOQ	<LOQ	0.10
CBCA	0.02	0.17	0.10
CBD	0.19	1.91	0.10
CBDA	0.38	3.84	0.10
CBDV	0.03	0.25	0.10
CBDVA	<LOQ	<LOQ	0.10
CBG	<LOQ	<LOQ	0.10
CBGA	<LOQ	<LOQ	0.10
CBN	0.02	0.20	0.10
CBNA	<LOQ	<LOQ	0.10
Δ8-THC	<LOQ	<LOQ	0.10
Δ9-THC	0.02	0.17	0.10
THCA	<LOQ	<LOQ	0.10
THCV	<LOQ	<LOQ	0.10
THCVA	<LOQ	<LOQ	0.10
Total THC	0.02	0.17	-
Total CBD	0.53	5.28	-
Total Cannabinoids	0.65	6.54	-

LOQ= Limit of quantitation, ND = Not detected, NR = Not reported
 Total THC = THCa * 0.877 + d9-THC, Total CBD = CBDa * 0.877 + CBD



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Terpenes

Date Analyzed: 12/09/2021
Instrument: HS-GC/MS

Date Completed: 12/14/2021
Method: HP002

Analyst: A D

Terpene	Result (mg/g)	Result (%)	LOQ (mg/g)
α-Pinene	1.30	0.13	0.20
Camphene	<LOQ	<LOQ	0.20
β-Myrcene	<LOQ	<LOQ	0.20
β-Pinene	<LOQ	<LOQ	0.20
3-Carene	<LOQ	<LOQ	0.20
α-Terpinene	<LOQ	<LOQ	0.20
δ-Limonene	0.23	0.02	0.20
Eucalyptol	<LOQ	<LOQ	0.20
γ-Terpinene	<LOQ	<LOQ	0.20
Terpinolene	<LOQ	<LOQ	0.20
Linalool	<LOQ	<LOQ	0.20
Fenchone	<LOQ	<LOQ	0.20
Isopulegol	<LOQ	<LOQ	0.20
Borneol	<LOQ	<LOQ	0.20
Terpineol	<LOQ	<LOQ	0.20
Geraniol	<LOQ	<LOQ	0.20
β-Caryophyllene	0.26	0.03	0.20
α-Humulene	<LOQ	<LOQ	0.20
Valencene	<LOQ	<LOQ	0.20
cis-Nerolidol	<LOQ	<LOQ	0.20
trans-Nerolidol	<LOQ	<LOQ	0.20
Guaiol	1.04	0.10	0.20
α-Bisabolol	0.41	0.04	0.20

LOQ= Limit of quantitation, ND = Not detected, NR = Not reported

Residual Solvents

Date Analyzed: 12/14/2021
Instrument: HS-GC/MS

Date Completed: 12/16/2021
Method: HP002

Analyst: A D

Residual Solvent	Result (ppm)	LOQ (ppm)	Status
Methanol	<LOQ	10	Tested
Ethanol	<LOQ	10	Tested
Acetone	<LOQ	10	Tested
Isopropanol	<LOQ	10	Tested
Acetonitrile	<LOQ	10	Tested
n-Hexane	<LOQ	10	Tested
Tetrahydrofuran	<LOQ	10	Tested
Chloroform	<LOQ	10	Tested
Carbon-Tetrachloride	<LOQ	10	Tested
Benzene	<LOQ	10	Tested
Heptane	<LOQ	10	Tested
Toluene	<LOQ	10	Tested
p+m Xylene	<LOQ	10	Tested
o-Xylene	<LOQ	10	Tested

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PASS

Pesticides

Date Analyzed: 12/20/2021
Instrument: LC-MS/MS

Date Completed: 12/22/2021
Method: HP001/HP004

Analyst: B T

Pesticide	Result (ppb)	LOQ (ppb)	Limit (ppb)	Status
Oxamyl	<LOQ	100.0	1000	Pass
Daminozide	<LOQ	100.0	1000	Pass
Acephate	<LOQ	100.0	400	Pass
Methomyl	<LOQ	100.0	400	Pass
Thiamethoxam	<LOQ	100.0	200	Pass
Imidacloprid	<LOQ	100.0	400	Pass
Dimethoate	<LOQ	100.0	200	Pass
Acetamiprid	<LOQ	100.0	200	Pass
Aldicarb	<LOQ	100.0	400	Pass
Thiacloprid	<LOQ	100.0	200	Pass
Dichlorvos	<LOQ	100.0	100	Pass
Carbofuran	<LOQ	100.0	200	Pass
Propoxur	<LOQ	100.0	200	Pass
Carbaryl	<LOQ	100.0	200	Pass
Naled	<LOQ	100.0	500	Pass
Imazalil	<LOQ	100.0	200	Pass
Metalaxyl	<LOQ	100.0	200	Pass
Phosmet	<LOQ	100.0	200	Pass
Methiocarb	<LOQ	100.0	200	Pass
Chlorantraniliprole	<LOQ	100.0	200	Pass
Boscalid	<LOQ	100.0	400	Pass
Azoxystrobin	<LOQ	100.0	200	Pass
Spiroxamine	<LOQ	100.0	400	Pass
Pacllobutrazol	<LOQ	100.0	400	Pass
Malathion	<LOQ	100.0	200	Pass
Mycobutanil	<LOQ	100.0	200	Pass
Bifenazate	<LOQ	100.0	200	Pass
Spirotetramat	<LOQ	100.0	200	Pass
Ethoprophos	<LOQ	100.0	200	Pass
Fenoxycarb	<LOQ	100.0	200	Pass
Propiconazole	<LOQ	100.0	400	Pass
Kresoxim-methyl	<LOQ	100.0	400	Pass
Tebuconazole	<LOQ	100.0	400	Pass
Diazinon	<LOQ	100.0	200	Pass
Clofentezine	<LOQ	100.0	200	Pass
Trifloxystrobin	<LOQ	100.0	200	Pass
MGK-264	<LOQ	100.0	200	Pass
Prallethrin	<LOQ	100.0	200	Pass
Chlorpyrifos	<LOQ	100.0	200	Pass
Hexythiazox	<LOQ	100.0	100	Pass
Piperonyl Butoxide	<LOQ	100.0	200	Pass
Spiromesifen	<LOQ	100.0	200	Pass
Etoxazole	<LOQ	100.0	200	Pass
Abamectin	<LOQ	100.0	500	Pass
Cyfluthrin	<LOQ	100.0	1000	Pass
Cypermethrin	<LOQ	100.0	1000	Pass
Fenpyroximate	<LOQ	100.0	400	Pass
Pyridaben	<LOQ	100.0	200	Pass
Bifenthrin	<LOQ	100.0	200	Pass
Etofenprox	<LOQ	100.0	400	Pass
Acequinocyl	<LOQ	100.0	2000	Pass

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Pesticide	Result (ppb)	LOQ (ppb)	Limit (ppb)	Status
Flonicamid	<LOQ	100.0	1000	Pass
Fludioxonil	<LOQ	100.0	400	Pass
Fipronil	<LOQ	100.0	400	Pass
Permethrins	<LOQ	100.0	200	Pass
Chlorfenapyr	<LOQ	100.0	1000	Pass
Parathion Methyl	<LOQ	200.0	200	Pass
Pyrethrins	<LOQ	100.0	1000	Pass
Spinosad	<LOQ	100.0	200	Pass

LOQ= Limit of quantitation, ND = Not detected, NR = Not reported

Heavy Metals

PASS

Date Analyzed: 12/09/2021 | **Date Completed:** 12/10/2021 | **Analyst:** A K
Instrument: ICP-OES, CVAA | **Method:** HP600/601/602

Heavy Metals	Result (ppm)	LOQ (ppm)	Limit (ppm)	Status
Arsenic	ND	2.500	10.0	Pass
Cadmium	ND	2.500	4.1	Pass
Lead	ND	2.500	10.0	Pass
Mercury	ND	0.500	2.0	Pass

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Microbial Impurities

PASS

Date Analyzed: | **Date Completed:** | **Sample Collection Date:**
Instrument: Culture and qPCR | **Method:** HP100/101 | **Analyst:** C M

Microbials	Result (CFU/g)	Analytical Sensitivity (CFU/g)	Limit (CFU/g)	Status
Aerobic Bacteria	ND	10	200	Pass
Yeast & Mold	ND	10	20	Pass
P. aeruginosa	ND	--	Presence/absence	Pass
S. aureus	ND	--	Presence/absence	Pass

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TNTC = Too numerous to count, CFU = Colony forming units

Comments: Sample Collection Date: Not Provided on COC

Sample Amount: 1.00 g

Pass/Fail based on USP 1111 acceptance criteria

Mycotoxins

PASS

Date Analyzed: 12/17/2021 | **Date Completed:** 12/20/2021 | **Analyst:** B T
Instrument: LC-MS/MS | **Method:** HP001/HP004

Mycotoxins	Result (ppb)	LOQ (ppb)	Limit (ppb)	Status
B1	<LOQ	20.0	20	Pass
B2	<LOQ	20.0	20	Pass
G1	<LOQ	20.0	20	Pass
G2	<LOQ	20.0	20	Pass
Ochratoxin A	<LOQ	20.0	20	Pass

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Brandon Thorpe, PhD
Lab Director
12/22/2021

SATIVA LLC
Testing Laboratories



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