




EVIO Labs - Berkeley
1200 5th St.
Berkeley, CA 94710

(510) 356-4248
eviolabs.com/
Lic# C8-0000067-LIC

Rational Hemp 2400mg CBD

Sample ID: 2005ELB0510.1142	Created: 05/27/2020	Client: Mountain Oil Trading	Cultivator/Manufacturer:
Strain: N/A	Collected:	Lic. #:	
Matrix: Ingestible	Received: 05/27/2020	5 Atlantic St	
Type: Tincture	Completed: 06/10/2020	East Hampton, OR 11937	
Sample Size: 1 units; Batch:	Batch#: N/A		

	2.495 mg/mL	79.838 mg/mL	86.635 mg/mL
	Total THC	Total CBD	Total Cannabinoids
Not Tested NT	NT	Not Tested	
Water Activity	Moisture	Foreign Matter	

Safety

Batch Status: Complete

Complete Pesticides	Complete Microbials	Complete Mycotoxins	Complete Solvents	Complete Metals	Not Tested Foreign Matter
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Cannabinoids

Complete

Analyte	LOD	LOQ	Mass	Mass	Mass	Mass	Mass
	%	%	%	mg/g	mg/mL	mg/serving	mg/container
THCa	0.0074	0.0186	<LOQ	<LOQ	<LOQ	N/A	N/A
Δ9-THC	0.0052	0.0186	0.2696	2.696	2.495	2.495	74.850
Δ8-THC	0.0071	0.0186	<LOQ	<LOQ	<LOQ	N/A	N/A
THCVa	0.0056	0.0186	<LOQ	<LOQ	<LOQ	N/A	N/A
THCV	0.0056	0.0186	<LOQ	<LOQ	<LOQ	N/A	N/A
CBDa	0.0045	0.0186	0.1530	1.530	1.416	1.416	42.480
CBD	0.0056	0.0186	8.4932	84.932	78.596	78.596	2357.882
CBDV	0.0052	0.0186	0.0574	0.574	0.531	0.531	15.941
CBN	0.0071	0.0186	0.0225	0.225	0.209	0.209	6.256
CBGa	0.0089	0.0186	<LOQ	<LOQ	<LOQ	N/A	N/A
CBG	0.0082	0.0186	0.0956	0.956	0.885	0.885	26.554
CBC	0.0063	0.0186	0.2705	2.705	2.503	2.503	75.086
Total THC			0.2696	2.696	2.495	2.495	74.850
Total CBD			8.6274	86.274	79.838	79.838	2395.137
Total			9.3619	93.619	86.635	86.635	2599.048

Moisture

Date Tested:

Equipment Used: Shimadzu MOC63U; EVIO SOPT.40.010. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13).

Foreign Matter

Date Tested:

Equipment Used: Visual Inspection; EVIO SOPT.40.013

Water Activity

Date Tested:

Equipment Used: Rotronic HC2-AW; EVIO SOPT.40.011.CA. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13).


1 Unit = One 30 mL (client info) bottle, one mL tincture = 0.9254g

Potency Date Tested: 06/09/2020

Total CBD = (CBDa x 0.877) + CBD, Total THC = (THCa x 0.877) + Δ9-THC

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NaN = Not a Number. Cured plant material reported as moisture-corrected % dry weight, other sample types reported 'as is'. Analytical Instrumentation: Shimadzu Nexera HPLC. EVIO SOPT.30.050.CA, SOPT.40.023.CA. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13).




Ian Riversong
Lab Director
06/10/2020

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Type: Tincture	Completed: 06/10/2020	5 Atlantic St	
Sample Size: 1 units; Batch:	Batch#: N/A	East Hampton, OR 11937	

Pesticides

Complete

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.025	0.08		ND	Tested	Fludioxonil	0.025	0.075		ND	Tested
Acephate	0.025	0.075		ND	Tested	Hexythiazox	0.025	0.075		ND	Tested
Acequinocyl	0.025	0.075		ND	Tested	Imazalil	0.025	0.075		ND	Tested
Acetamiprid	0.025	0.075		ND	Tested	Imidacloprid	0.025	0.075		ND	Tested
Aldicarb	0.025	0.075		ND	Tested	Kresoxim Methyl	0.025	0.075		ND	Tested
Azoxystrobin	0.025	0.075		ND	Tested	Malathion	0.025	0.075		ND	Tested
Bifenazate	0.025	0.075		ND	Tested	Metalaxyl	0.025	0.075		ND	Tested
Bifenthrin	0.025	0.075		ND	Tested	Methiocarb	0.025	0.075		ND	Tested
Boscalid	0.025	0.075		ND	Tested	Methomyl	0.025	0.075		ND	Tested
Captan	0.035	0.116		ND	Tested	Mevinphos	0.025	0.075		ND	Tested
Carbaryl	0.025	0.075		ND	Tested	Myclobutanil	0.025	0.075		ND	Tested
Carbofuran	0.025	0.075		ND	Tested	Naled	0.025	0.075		ND	Tested
Chlorantraniliprole	0.025	0.075		ND	Tested	Oxamyl	0.025	0.075		ND	Tested
Chlordane	0.025	0.075		ND	Tested	Paclobutrazol	0.025	0.075		ND	Tested
Chlorfenapyr	0.025	0.075		ND	Tested	Parathion Methyl	0.025	0.075		ND	Tested
Chlorpyrifos	0.025	0.075		ND	Tested	Pentachloronitrobenzene	0.025	0.075		ND	Tested
Clofentezine	0.025	0.075		ND	Tested	Permethrin	0.025	0.075		ND	Tested
Coumaphos	0.025	0.075		ND	Tested	Phosmet	0.025	0.075		ND	Tested
Cyfluthrin	0.064	0.21		ND	Tested	Piperonyl Butoxide	0.025	0.075		ND	Tested
Cypermethrin	0.025	0.075		ND	Tested	Prallethrin	0.025	0.075		ND	Tested
Daminozide	0.025	0.075		ND	Tested	Propiconazole	0.025	0.075		ND	Tested
Diazinon	0.025	0.075		ND	Tested	Propoxur	0.025	0.075		ND	Tested
Dichlorvos	0.025	0.075		ND	Tested	Pyrethrins	0.025	0.075		ND	Tested
Dimethoate	0.025	0.075		ND	Tested	Pyridaben	0.025	0.075		ND	Tested
Dimethomorph	0.025	0.075		ND	Tested	Spinetoram	0.025	0.075		ND	Tested
Ethoprophos	0.025	0.075		ND	Tested	Spinosad	0.025	0.075		ND	Tested
Etofenprox	0.025	0.075		ND	Tested	Spiromesifen	0.025	0.075		ND	Tested
Etoxazole	0.025	0.075		ND	Tested	Spirotetramat	0.025	0.075		ND	Tested
Fenhexamid	0.025	0.075		ND	Tested	Spiroxamine	0.025	0.075		ND	Tested
Fenoxycarb	0.025	0.075		ND	Tested	Tebuconazole	0.025	0.075		ND	Tested
Fenpyroximate	0.025	0.075		ND	Tested	Thiacloprid	0.025	0.075		ND	Tested
Fipronil	0.025	0.075		ND	Tested	Thiamethoxam	0.025	0.075		ND	Tested
Fonicamid	0.025	0.075		ND	Tested	Trifloxystrobin	0.025	0.075		ND	Tested

Date Tested: 05/27/2020
 LOD = Limit of Detection; LOQ = Limit of Quantitation; ND - Not Detected; The reported result is based on as-is sample mass, e.g., wet-weight; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Perkin Elmer Q5ight 420 LC-MS/MS; SOP.T.40.05.1.CA




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Sample Size: 1 units; Batch:	Batch#: N/A	East Hampton, OR 11937	

Residual Solvents

Complete

Analyte	LOD	LOQ	Limit	Concentration	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.08	0.25		ND	Tested
Benzene	0.03	0.12		ND	Tested
Chloroform	0.11	0.37		ND	Tested
Ethylene Oxide	0.12	0.41		ND	Tested
Methylene-Chloride	0.66	0.75		ND	Tested
Trichloroethene	0.4	0.4		ND	Tested
Acetone	5.46	36		<LOQ	Tested
Acetonitrile	0.41	1.37		ND	Tested
Butane	41.96	230.4		ND	Tested
Ethanol	6.39	48		997.73	Tested
Ethyl-Acetate	2.61	19.2		68.45	Tested
Ethyl-Ether	3.19	10.51		ND	Tested
Heptane	2.99	24		<LOQ	Tested
n-Hexane	0.31	1.03		ND	Tested
Isopropanol	3.3	24		ND	Tested
Methanol	2.76	9.12		<LOQ	Tested
Pentane	6.29	36		ND	Tested
Propane	7.93	26.16		ND	Tested
Toluene	0.98	3.24		ND	Tested
Xylenes	1.04	1.04		ND	Tested

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Date Tested: 05/29/2020

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; The reported result is based on nominal sample weight, and reported 'as is'; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu QP2020 GCMS; EVIO SOPT.40.031.CA



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Microbials

Complete

Analyte

Result

Shiga toxin-producing E. Coli	None Detected in 1g
Salmonella SPP	None Detected in 1g

Date Tested: 05/28/2020

NT = Not tested; The reported result is based on nominal sample weight, and reported 'as is.' All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: BIO-RAD QPCR CFX96; EVIO SOPT.40.043

Mycotoxins

Complete

Analyte	LOD µg/kg	LOQ µg/kg	Limit µg/kg	Units µg/kg	Status
Total Aflatoxins	5	17		ND	Tested
Aflatoxin B1	1	4		ND	Tested
Aflatoxin B2	1	4		ND	Tested
Aflatoxin G1	1	3		ND	Tested
Aflatoxin G2	2	6		ND	Tested
Ochratoxin A	4.5	14.8		ND	Tested

Date Tested: 05/27/2020

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Heavy Metals


Complete

Analyte	LOD µg/g	LOQ µg/g	Limit µg/g	Units µg/g	Status
Arsenic	0.003	0.05		ND	Tested
Cadmium	0.003	0.05		<LOQ	Tested
Lead	0.007	0.05		<LOQ	Tested
Mercury	0.004	0.05		ND	Tested

Date Tested: 05/28/2020

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; The reported result is based on sample weight, and reported 'as is'; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu ICP/MS. EVIO SOPT.30.070.CA, SOPT.40.060.CA




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