

Certificate of Analysis

Product Name: RLV Hemp + Melatonin Sweet Orange 500 mg	Product No.: RLV-6-009-2-30
	Country of Origin: USA
Lot No.: 20304K12	Serving Size: 1 mL
	Manufacture Date: 09/03/2020
Product Packaging: 30 mL bottle/dropper	Report Date: 09/14/2020

Analyte	Test Method	Acceptable Limit	Test Results
Physical			
Appearance	Visual	Oily liquid	Conforms
Color	Visual	Light brownish	Conforms
Odor	Organoleptic	Slight hempy citrus mint	Conforms
Potency			
Total cannabinoids	MSP-7.3.1.3	NLT 500 mg/30 mL	531 mg/30 mL
Total THC (delta 9 THC and THC-A)	MSP-7.3.1.3	NMT 0.3% w/w	Conforms
Melatonin	USP	NLT 3 mg/mL	3 mg/mL
Impurities			
Pesticides	MSP-7.5.1.8	Below action level limits	Conforms
Solvents	MSP-7.5.1.6	Below action level limits	Conforms
Microbiological Pathogens			
Escherichia Coli	MSP-7.5.1.9	Absent/10g	None detected
Salmonella	MSP-7.5.1.9	Absent/10g	None detected
Aflatoxins	MSP-7.5.1.9	< 20 ppb	0 ppb
Ochratoxin A	MSP-7.5.1.9	< 20 ppb	0 ppb
Molds	MSP-7.5.1.9	NMT 10 ² cfu/g	Conforms
Heavy Metals			
Arsenic	MSP-7.5.1.1	NMT 1.5 ppm	Conforms
Cadmium	MSP-7.5.1.1	NMT 0.3 ppm	Conforms
Lead	MSP-7.5.1.1	NMT 1.0 ppm	Conforms
Mercury	MSP-7.5.1.1	NMT 0.5 ppm	Conforms

Quality Control: 

Date: 09/14/2020

Quality Assurance: 

Date: 9/14/20

RLV Sweet Orange500

LaCore Nutraceuticals Certificate of Analysis



total cannabinoids	Δ9-THC	THCa	total THC
531 mg	0.0 mg	0.0 mg	0.0 mg
per	CBD	CBDa	total CBD
30mL	508.8 mg	0.0 mg	508.8 mg

Lot# 20304K12

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp



Stillwater Laboratories

<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID	sample wt	28.5 g
type	order	8267
lab ID	sample date	9/3/2020
unit	unit weight	28.5 g

Methods

method	equipment
weights	MSP-7.3.1.3 AUX120.1
potency	MSP-7.5.1.5 LC-2030
terpenes	MSP-7.5.1.7 QP2020/HS20
pesticides	MSP-7.5.1.8 LC-8060
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.1 AriaMx RTPCR
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

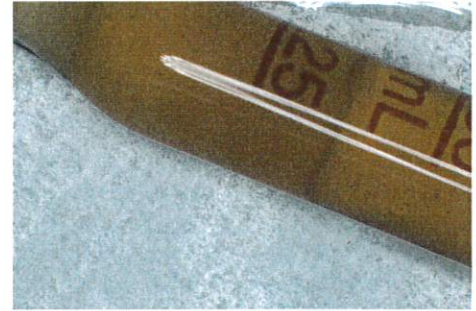
- caryophyllene
- humulene
- terpinolene
- ocimene
- beta pinene
- alpha pinene
- limonene
- myrcene
- linalool

HERBAL



FLORAL

tincture



Potency

	per 30mL	estimated error
tetrahydrocannabinolic acid (THCa)	0% 0.0 mg	± 0.47 mg
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0% 0.0 mg	± 0.47 mg
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0% 0.0 mg	± 0.47 mg
tetrahydrocannabivarin (THCv)	0% 0.0 mg	± 0.47 mg
cannabidiolic acid (CBDa)	0% 0.0 mg	± 0.47 mg
cannabidiol (CBD)	1.79% 508.8 mg	± 0.89 mg
cannabidivarin (CBDv)	0% 0.0 mg	± 0.47 mg
cannabigerolic acid (CBGA)	0% 0.0 mg	± 0.47 mg
cannabigerol (CBG)	.02% 4.4 mg	± 0.47 mg
cannabinol (CBN)	0% 0.0 mg	± 0.47 mg
cannabichromene (CBC)	.06% 18.1 mg	± 0.49 mg

Terpenes

	%	estimated error		%	estimated error		%	estimated error
β-myrcene	0.000%	± 0.0016%	camphene	0.000%	± 0.0016%	guaiaol	0.000%	± 0.0016%
β-caryophyllene	0.000%	± 0.0016%	Δ ³ -carene	0.000%	± 0.0016%	β-bisabolol	0.000%	± 0.0016%
alpha-pinene	0.003%	± 0.0017%	a-terpinene	0.000%	± 0.0016%	eucalyptol	0.000%	± 0.0016%
β-pinene	0.000%	± 0.0016%	para-cymene	0.002%	± 0.0017%			
D-limonene	0.063%	± 0.0031%	g-terpinene	0.000%	± 0.0016%			
linalool	0.003%	± 0.0017%	(-)-isopulegol	0.000%	± 0.0016%	total terpenes		0.07%
ocimene	0.001%	± 0.0033%	geraniol	0.000%	± 0.0016%			
terpinolene	0.000%	± 0.0016%	cis-nerolidol	0.000%	± 0.0016%			
alpha-humulene	0.000%	± 0.0016%	trans-nerolidol	0.000%	± 0.0016%			

Solvents

	MT limit	0JC21	LOQ
propane	5,000	0 ppm	<10ppm
butanes	5,000	0 ppm	<10ppm
pentanes	5,000	0 ppm	<10ppm
hexanes	290	0 ppm	<10ppm
cyclohexane	3,880	0 ppm	<10ppm
heptanes	5,000	0 ppm	<10ppm
methanol	3,000	0 ppm	<10ppm
isopropanol	5,000	0 ppm	<10ppm
acetone	5,000	0 ppm	<10ppm
ethyl acetate	5,000	0 ppm	<10ppm
benzene	2	0 ppm	<0.2ppm
toluene	890	0 ppm	<10ppm
xylenes	2,170	0 ppm	<10ppm
chloroform	2	0 ppm	<0.2ppm
dichloromethane	600	0 ppm	<10ppm

Pesticides (MT)

	MT limit	0JC21	LOQ
abamectin	0.00 ppm	<10ppb	
acequinocyl	0.00 ppm	<10ppb	
bifenazate	0.00 ppm	<10ppb	
bifenthrin	0.00 ppm	<10ppb	
chloromequat cl.	0.00 ppm	<10ppb	
cyfluthrin	0.00 ppm	<80ppb	
diaminozide	0.00 ppm	<10ppb	
etoxazole	0.00 ppm	<10ppb	
fenoxycarb	0.00 ppm	<10ppb	
imazalil	0.00 ppm	<10ppb	
imidacloprid	0.00 ppm	<10ppb	
myclobutanil	0.00 ppm	<10ppb	
paclobutrazol	0.00 ppm	<10ppb	
pyrethrins	0.00 ppm	<10ppb	
spinosad	0.00 ppm	<10ppb	
spiromesifen	0.00 ppm	<10ppb	
spirotramat	0.00 ppm	<10ppb	
trifloxystrobin	0.00 ppm	<10ppb	

Pesticides (other)

	0JC21	LOQ
acephate	0.00 ppm	<10ppb
acetamiprid	0.00 ppm	<10ppb
aldicarb	0.00 ppm	<10ppb
azoxystrobin	0.00 ppm	<10ppb
boscalid	0.00 ppm	<10ppb
carbaryl	0.00 ppm	<10ppb
carbofuran	0.00 ppm	<10ppb
chlorantraniliprole	0.00 ppm	<10ppb
chlorpyrifos	0.00 ppm	<10ppb
clofentezine	0.00 ppm	<10ppb
cypermethrin	0.00 ppm	<10ppb
diazinon	0.00 ppm	<10ppb
dichlorvos	0.00 ppm	<10ppb
dimethoate	0.00 ppm	<10ppb
etofenprox	0.00 ppm	<10ppb
fenpyroximate	0.00 ppm	<10ppb
fipronil	0.00 ppm	<10ppb
flonicamid	0.00 ppm	<10ppb
fludioxonil	0.00 ppm	<10ppb
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

Toxic Metals

	MT limit	0JC21	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Microbial

	MT limit	0JC21	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Comments

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_g² = Σ(∂f/∂i)s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} X S_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com



Analytical Report

1309 Record Crossing Rd
Dallas, TX 75235

Report Date: 09/11/2020

Work Order: CHSG200903-018
Received Date: 09/03/2020
P.O. #:

Client: Lacore Liquid
1801 S. Industrial Pkwy
Van Alstyne, TX 75495
Client Contact: Dan Krist

Comments:

Sample Num: 20CH06178
Client Sample Num: RLV 500mg Sleep
Comments:

Lot Number: 20304K12

<u>Analysis</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Analysis Date</u>	<u>Approval Date</u>
Melatonin	USP Assay Melatonin	3.14	mg/svg	09/11/2020	09/11/2020

Reviewed by: 
Cheri Turman, PhD., Vice President