

## Certificate of Analysis

<b>Product Name: RLV Full Spectrum Sleep 500 mg</b>	<b>Product No.: RLV-6-009-2-30</b>
<b>Lot No.: 21046K12</b>	<b>Country of Origin: USA</b>
<b>Product Packaging: 30 mL bottle/dropper</b>	<b>Serving Size: 1 mL</b>
	<b>Manufacture Date: 03/19/2021</b>
	<b>Report Date: 04/08/2021</b>

Analyte	Test Method	Acceptable Limit	Test Results
<b>Physical</b>			
Appearance	Visual	Oily liquid	Conforms
Color	Visual	Amber to light brownish	Conforms
Odor	Organoleptic	Slight hempy citrus mint	Conforms
<b>Potency</b>			
Total cannabinoids	MSP-7.3.1.3	NLT 16.6 mg/mL	19.3 mg/mL
Total THC (delta 9 THC and THC-A)	MSP-7.3.1.3	NMT 0.3% w/w	Conforms
<b>Impurities</b>			
Pesticides	MSP-7.5.1.8	Below action level limits	Conforms
Solvents	MSP-7.5.1.6	Below action level limits	Conforms
<b>Microbiological Pathogens</b>			
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 <sup>2</sup> cfu/g	Conforms
<b>Heavy Metals</b>			
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: 04/08/2021

Quality Assurance: \_\_\_\_\_



Date: 04/08/2021

certificate ID  
**1CU50**

**RLV FS 500mg**

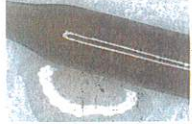
**7USC1639 Certificate of Analysis**

LaCore Nutraceuticals

21046K12

rec'd 3/23/2021 5:16:20 PM

order 10196



total  
cannabinoids  
**19.3mg**  
per  
mL

THC± 0.4mg  
CBD± 18.4mg

Stillwater  
Laboratories



Potency per mL	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
<b>total cannabinoids</b>	<b>19.3mg</b>	<b>0.07</b>	<b>0.22</b>	<b>±0.54mg</b>
<b>total THC±</b>	<b>0.4mg</b>	<b>0.07</b>	<b>0.22</b>	<b>±0.22mg</b>
<b>total THC (THC+THCa)</b>	<b>0.4mg</b>	<b>0.07</b>	<b>0.22</b>	<b>±0.22mg</b>
total CBD±	18.4mg	0.07	0.22	±0.53mg
total CBD (CBD+CBDA)	18.4mg	0.07	0.22	±0.53mg
tetrahydrocannabinol (THCa)	ND	0.07	0.22	±0.22mg
Δ9-tetrahydrocannabinol (Δ9 THC)	0.4mg	0.07	0.21	±0.21mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.09	0.28	±0.28mg
tetrahydrocannabivarin (THCv)	ND	0.08	0.23	±0.23mg
cannabidiolic acid (CBDA)	<LOQ	0.06	0.19	±0.19mg
cannabidiol (CBD)	18.3mg	0.07	0.22	±0.53mg
cannabivarin (CBDv)	ND	0.07	0.22	±0.22mg
cannabigerolic acid (CBGA)	ND	0.07	0.20	±0.20mg
cannabigerol (CBG)	<LOQ	0.02	0.06	±0.06mg

**Terpenes**

MSP-7.5.1.6

Terpene	total terpenes	0.098%
caryophyllene	linalool	ND
humulene	β-myrcene	ND
terpinolene	D-limonene	0.098%
ocimene	α-pinene	ND
beta pinene	β-pinene	ND
alpha pinene	ocimene	ND
limonene	terpinolene	ND
myrcene	α-humulene	ND
linalool	β-caryophyllene	ND
	α-bisabolol	ND
	camphene	ND
	Δ3-carene	ND
	caryophyllene oxide	ND
	para-cymene	ND
	eucalyptol	ND
	geraniol	ND
	guaiol	ND

**Microbial**

MSP-7.5.1.10

Microbial	limit	LOD	LOQ	error	result
E.coli	ND	0.01	0.1	±0.1	CFU PASS
Salmonella sp.	ND	0.01	0.1	±0.1	CFU PASS
molds	ND	1.7	5.0	±5.0	CFU PASS
Ochratoxin A	ND	0.3	0.8	±0.8	ppb PASS
Aflatoxin B1B2G1G2	ND	0.3	0.8	±0.8	ppb PASS

**Pesticides**

MSP-7.5.1.8

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Pesticide	limit	LOD	LOQ	error	result
Abamectin	ND	0.005	0.014	±0.014	ppm PASS
Acephate	ND	0.005	0.015	±0.015	ppm PASS
Acequinocyl	ND	0.004	0.012	±0.012	ppm PASS
Acetamiprid	ND	0.003	0.010	±0.010	ppm PASS
Aldicarb	ND	0.001	0.004	±0.004	ppm PASS
Azoxystrobin	ND	0.001	0.004	±0.004	ppm PASS
Bifenazate	ND	0.001	0.003	±0.003	ppm PASS
Bifenthrin	ND	0.001	0.002	±0.002	ppm PASS
Boscalid	ND	0.013	0.040	±0.040	ppm PASS
Carbaryl	ND	0.005	0.016	±0.016	ppm PASS
Carbofuran	ND	0.001	0.003	±0.003	ppm PASS
Chloanthraniliprole	ND	0.013	0.038	±0.038	ppm PASS
Chlorfenapyr	ND	0.003	0.010	±0.010	ppm PASS
Chlorpyrifos	ND	0.027	0.080	±0.080	ppm PASS
Clofentezine	ND	0.005	0.015	±0.015	ppm PASS
Coumaphos	ND	0.003	0.010	±0.010	ppm PASS
Cyfluthrin	ND	0.005	0.014	±0.014	ppm PASS
Cypermethrin	ND	0.003	0.010	±0.010	ppm PASS
Daminozide	ND	0.018	0.054	±0.054	ppm PASS
Dichlorvos	ND	0.009	0.028	±0.028	ppm PASS
Diazinon	ND	0.001	0.002	±0.002	ppm PASS
Dimethoate	ND	0.001	0.004	±0.004	ppm PASS
Etoxazole	ND	0.002	0.007	±0.007	ppm PASS
Fenoxycarb	ND	0.002	0.007	±0.007	ppm PASS
Fenpyroximate	ND	0.001	0.002	±0.002	ppm PASS
Fipronil	ND	0.005	0.015	±0.015	ppm PASS
Flonicamid	ND	0.064	0.193	±0.193	ppm PASS
Fludioxonil	ND	0.004	0.013	±0.013	ppm PASS
Hexythiazox	ND	0.001	0.002	±0.002	ppm PASS
Imazalil	ND	0.004	0.013	±0.013	ppm PASS
Imidacloprid	ND	0.001	0.002	±0.002	ppm PASS
Malathion	ND	0.003	0.010	±0.010	ppm PASS
Metaxalyl	ND	0.005	0.015	±0.015	ppm PASS
Methiocarb	ND	0.002	0.007	±0.007	ppm PASS
Methomyl	ND	<0.001	0.001	±0.001	ppm PASS
Methyl parathion	ND	0.001	0.002	±0.002	ppm PASS
Mevinphos	ND	0.003	0.010	±0.010	ppm PASS
Myclobutanil	ND	0.001	0.002	±0.002	ppm PASS
Naled	ND	0.003	0.010	±0.010	ppm PASS
Oxamyl	ND	0.001	0.004	±0.004	ppm PASS
Paclbutrazol	ND	0.002	0.005	±0.005	ppm PASS
Permethrin	ND	0.006	0.019	±0.019	ppm PASS
Phosmet	ND	0.002	0.006	±0.006	ppm PASS
Piperonylbutoxide	ND	0.007	0.020	±0.020	ppm PASS
Prallethrin	ND	0.002	0.007	±0.007	ppm PASS
Propiconazole	<LOQ	0.002	0.007	±0.007	ppm PASS
Propoxur	ND	0.004	0.011	±0.011	ppm PASS

**Solvents**

MSP-7.5.1.7

Solvent	limit	LOD	LOQ	error	result
Acetone	ND	0.7	1.2	±2.1	ppm PASS
Acetonitrile	ND	0.6	1.9	±1.9	ppm PASS
Benzene	ND	0.0	1.0	±1.0	ppm PASS
Butane	ND	1.4	4.3	±4.3	ppm PASS
Chloroform	ND	0.1	0.2	±0.2	ppm PASS
Cyclohexane	ND	0.5	1.6	±1.6	ppm PASS
Ethanol	ND	0.7	2.2	±2.2	ppm PASS
Heptane	ND	0.4	1.3	±1.3	ppm PASS
Hexane	ND	0.5	1.6	±1.6	ppm PASS
Isopropyl alcohol	ND	0.6	1.9	±1.9	ppm PASS
Methanol	ND	0.5	1.6	±1.6	ppm PASS
Pentane	ND	0.2	1.0	±1.0	ppm PASS
Propane	ND	0.5	1.6	±1.6	ppm PASS
Toluene	ND	0.3	1.0	±1.0	ppm PASS
Xylenes	ND	0.3	1.0	±1.0	ppm PASS

**Pesticides**

MSP-7.5.1.8

Pesticide	limit	LOD	LOQ	error	result
Pyrethrin	ND	0.002	0.005	±0.005	ppm PASS
Pyridaben	ND	0.001	0.002	±0.002	ppm PASS
Spinetoram	ND	0.002	0.007	±0.007	ppm PASS
Spinosad	ND	0.004	0.013	±0.013	ppm PASS
Spiromesifen	ND	0.002	0.006	±0.006	ppm PASS
Spirotetramat	ND	0.002	0.005	±0.005	ppm PASS
Spiroxamine	ND	0.001	0.002	±0.002	ppm PASS
Tebuconazole	ND	0.003	0.010	±0.010	ppm PASS
Thiacloprid	ND	0.001	0.002	±0.002	ppm PASS
Thiamethoxam	ND	0.002	0.006	±0.006	ppm PASS
Trifloxystrobin	ND	0.001	0.004	±0.004	ppm PASS

Certified by:

*[Signature]*

*[Signature]*

Kyle Larson, MSC  
Deputy Director

Jacob Harris  
QA Manager



Certificate #4961.01  
<https://portal.a2la.org/scopepdf/4961-01.pdf>

**Stillwater Laboratories Inc.**  
MT License L0001, L00007  
6073 US93N Suite 5, Olney MT 59927  
406-681-2019

**INSTRUMENTS:** Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

\* All testing was completed onsite at 6073 US93N, Olney MT \*\* Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>extraction</sub>/m<sub>dry</sub> ... Decarboxylated cannabinoid concentration is calculated XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + XXX ... Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s<sub>y</sub><sup>2</sup> = Σ (∂f/∂i)<sup>2</sup> s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t<sub>0.95</sub> x s<sub>y</sub>. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. † = decarbed

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