

Certificate of Analysis

Product: FP SNAP 30CT, RLV PROTECT

Product No.: RLV-6-010-6-30

Customer Name: RELIV

Revision: 00

Lot Number: 22BL05519

Country of Origin: U.S.A.

Manufacture Date: 3/22/2022

Serving Size: 1 mL

Expiration Date: 3/22/2024

Packaging Type: Snap

Physical	Test	Method	Specification	Results	Units
	Appearance	Visual	Cloudy Oily Liquid	Conforms	-
	Odor	Organoleptic	Peppermint	Conforms	-
	Taste	Organoleptic	Peppermint	Conforms	-
Chemistry	Test	Method	Specification	Results	Units
	CBD	HPLC	NLT 16.67 mg/serving	18.50	mg/serving
	Pesticides	HPLC	Below Action Level Limits	Conforms	-
	Solvents	HPLC	Below Action Level Limits	Conforms	-
	THC	HPLC	NMT 0.3% (w/w)	0.00	%
Microbiology	Test	Method	Specification	Results	Units
	Mycotoxins	HPLC	NMT 20 ppb	0.0	ppb
	Salmonella	USP/AOAC	Negative/10 g	Negative	-
	Yeast & Mold	USP/AOAC	NMT 10 ² cfu/g	0	cfu/g
Heavy Metals	Test	Method	Specification	Results	Units
	Arsenic	ICP-MS	NMT 2 ppm	0.0000	ppm
	Cadmium	ICP-MS	NMT 0.5 ppm	0.0000	ppm
	Lead	ICP-MS	NMT 2 ppm	0.0000	ppm
	Mercury	ICP-MS	NMT 0.5 ppm	0.0000	ppm

This lot has been certified for release based on its conformance to specifications and all testing requirements.

Completed By:

[Signature]

Date:

4/25/22

Quality Approved By:

[Signature]

Date:

4/25/22

Page: 1/1



LacoreLabs[®]

Analytical Report

Sample Reference Number: 22LL02076

Client Sample Name: RLV Protect + Lunasin 500mg

Lot Number: 22BL05519

Item Code: RLV-6-010

Test	Method	Result	Performed by
Description	Visual	Conforms	<i>M</i>
Odor	Organoleptic	Conforms	<i>M</i>
Taste	Organoleptic	Conforms	<i>M</i>

Reviewed By :

Mike Rollins, Lab Technician

Date:

certificate ID
2DQ23

LaCore Nutraceuticals
RLV Protect Hemp Lunasin 500mg

7USC1639 Certificate of Analysis

license
sample ID Lot# 22BL05519
source ID 1Z600R3R0190509260

prod. date 3/22/2022
issue date 4/23/22 2:43 PM

Stillwater
Laboratories

13806
order

total cannabinoids
19.9mg
per
mL

total THC± ND
total CBD± 18.5mg

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample received 4/22/2022 11:53:55 AM in a client-labeled sachet, by commercial courier per Method 7.3.1.1, and as described in the Montana METRC Lab User Guide. Labeled Lot and sample tag 13806.



SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency	MSP-7.5.1.4	per mL	LOD	LOQ	error
total cannabinoids		19.9mg	0.08	0.24	±0.58mg
total THC±		ND	0.08	0.24	±0.24mg
total THC (THC+THCa)		ND	0.08	0.24	±0.24mg
total CBD±		18.5mg	0.08	0.24	±0.56mg
total CBD (CBD+CBDA)		18.5mg	0.08	0.24	±0.56mg
tetrahydrocannabinolic acid (THCa)		ND	0.08	0.24	±0.24mg
Δ9-tetrahydrocannabinol (Δ9 THC)		ND	0.08	0.23	±0.23mg
Δ8-tetrahydrocannabinol (Δ8 THC)*		ND	0.10	0.31	±0.31mg
tetrahydrocannabivarin (THCv)		ND	0.09	0.26	±0.26mg
cannabidiolic acid (CBDA)		ND	0.07	0.21	±0.21mg
cannabidiol (CBD)		18.5mg	0.08	0.24	±0.56mg
cannabidivarin (CBDv)		ND	0.08	0.24	±0.24mg
cannabigerolic acid (CBGA)		ND	0.07	0.22	±0.22mg
cannabigerol (CBG)		0.4mg	0.02	0.07	±0.08mg
cannabinol (CBN)		0.6mg	0.04	0.13	±0.14mg
cannabichromene (CBC)		0.4mg	0.08	0.24	±0.25mg

Terpenes	MSP-7.5.1.6	LOD	LOQ	error
total terpenes	0.044%	0.0007	0.0021	±0.0031%
linalool	0.006%	<0.0010	0.0010	±0.0011%
β-myrcene	0.008%	0.0008	0.0023	±0.0024%
D-limonene	0.005%	<0.0010	0.0013	±0.0015%
α-pinene	0.006%	<0.0010	0.0009	±0.0010%
β-pinene	0.004%	0.0006	0.0019	±0.0020%
ocimene	ND	0.0013	0.0039	±0.0039%
terpinolene	ND	0.0009	0.0027	±0.0027%
α-humulene	ND	0.0006	0.0019	±0.0019%
β-caryophyllene	<LOQ	0.0017	0.0052	±0.0053%
α-bisabolol	ND	0.0014	0.0042	±0.0042%
camphene	ND	0.0008	0.0024	±0.0024%
Δ3-carene	ND	0.0034	0.0103	±0.0103%
caryophyllene oxide	ND	0.0022	0.0066	±0.0066%
para-cymene	ND	0.0130	0.0389	±0.0389%
eucalyptol	0.008%	0.0018	0.0054	±0.0056%
geraniol	ND	0.0054	0.0163	±0.0163%
guaiol	ND	0.0017	0.0052	±0.0052%
isopulegol	ND	0.0017	0.0051	±0.0051%
cis-nerolidol	ND	0.0029	0.0087	±0.0087%
trans-nerolidol	ND	0.0014	0.0043	±0.0043%
α-terpinene	ND	0.0009	0.0027	±0.0027%

Pass / Fail Criteria

Microbial MSP-7.5.1.10b

FAIL: no failures
PASS: STEC (PCR), Salmonella (PCR), A. flavus (PCR), A. fumigatus (PCR), A. terreus (PCR), A. terreus (PCR)

Mycotoxins MSP-7.5.1.8

FAIL: no failures
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1, Aflatoxin B2, Aflatoxin G1.
Moisture MSP-7.5.1.3

not required / not requested

Metals MSP-7.5.1.7

FAIL: no failures
PASS: Arsenic, Cadmium, Lead, Mercury

Pesticides MSP-7.5.1.8

FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloanthraniliprole, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

Solvents MSP-7.5.1.7

FAIL: no failures
PASS: Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes

Certified by:



<https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7>

Stillwater Laboratories Inc.
MT License L100060-002
6073 US93N Suite 5, Olney MT 59927
PH 406-881-2019. www.stlwlabs.com

These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} × volume_{dilution}/m_{dry}. • Decarboxylated cannabinoid concentration is calculated XXX_{total} = 0.877 × XXX_a + 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 $s_y^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} × s_y. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed, * = analyte is off-scope.

certificate ID

2DQ23

LaCore Nutraceuticals

ANALYTICAL DATA

Stillwater
LaboratoriesReport Version: 1
Analysis Location: L-100060-

13806

order

sample ID Lot# 22BL05519
source ID 1Z600R3R0190509260
order 13806
rec'd date 4/22/2022 11:53:55 AM
issue date 4/23/2022 2:43:20 PM

Methods and Instruments

MSP-7.3.1.1	BAL-05	4/22/2022	MSP-7.5.1.7	QP2020/HS20	4/23/2022	L-100060-002
MSP-7.5.1.2	YSC HD801m12	4/23/2022	MSP-7.5.1.8	LCMS8060	4/23/2022	
MSP-7.5.1.3	6MOC63u	4/23/2022	MSP-7.5.1.8	LCMS8060	4/23/2022	
MSP-7.5.1.4	LC-2030C	4/23/2022	MSP-7.5.1.10b	Hardy Diag	4/23/2022	
MSP-7.5.1.6	QP2020/HS20	4/23/2022	MSP-7.5.1.11	ICPMS2030	4/23/2022	

Mycotoxins

MSP-7.5.1.8	limit	LOD	LOQ	error	result	
Ochratoxin A	ND	20 ppb	1.1	1.3	±3.3 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	1.1	1.4	±3.4 ppb	PASS

Microbial

MSP-7.5.1.10b	limit	LOD	LOQ	error	result	
E.coli	NT	0CFU			NA	
STEC (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
Salmonella (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
A. flavus (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
A. fumigatus (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
A. terreus (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
A. terreus (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS

Solvents

MSP-7.5.1.7	limit	LOD	LOQ	error	result	
Acetone	0 ppm	5000 ppm	0.1	0.2	±0.2 ppm	PASS
Acetonitrile	ND	410 ppm	0.1	0.2	±0.2 ppm	PASS
Benzene	ND	0 ppm	0.0	0.0	±0.0 ppm	PASS
Butane	ND	5000 ppm	0.1	0.4	±0.4 ppm	PASS
Chloroform	ND	0 ppm	0.0	0.0	±0.0 ppm	PASS
Cyclohexane	ND	0 ppm	0.0	0.1	±0.1 ppm	PASS
Ethanol	1 ppm	10000 ppm	0.1	0.2	±0.2 ppm	PASS
Heptane	ND	5000 ppm	0.0	0.1	±0.1 ppm	PASS
Hexane	ND	290 ppm	0.0	0.1	±0.1 ppm	PASS
Isopropyl alcohol	0 ppm	5000 ppm	0.1	0.2	±0.2 ppm	PASS
Methanol	ND	3000 ppm	0.0	0.1	±0.1 ppm	PASS
Pentane	ND	5000 ppm	0.0	0.1	±0.1 ppm	PASS
Propane	ND	5000 ppm	0.0	0.1	±0.1 ppm	PASS
Toluene	ND	890 ppm	0.0	0.1	±0.1 ppm	PASS
Xylenes	ND	2170 ppm	0.0	0.1	±0.1 ppm	PASS

Metals

MSP-7.5.1.7	limit	LOD	LOQ	error	result	
Arsenic	ND	1500 ppb	8.0	24.0	±24.0 ppb	PASS
Cadmium	ND	500 ppb	8.6	25.8	±25.8 ppb	PASS
Lead	ND	500 ppb	13.4	40.2	±40.2 ppb	PASS
Mercury	ND	300 ppb	6.7	20.2	±20.2 ppb	PASS

These results are only valid for the samples tested. 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 $s_g^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) $\pm t_{CL,90} \times s_g$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable.

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Pesticides

MSP-7.5.1.8	limit	LOD	LOQ	error	result	
Abamectin	ND	0.30 ppm	0.019	0.056	±0.056 ppm	PASS
Acephate	ND	5.00 ppm	0.020	0.059	±0.059 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.017	0.050	±0.050 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.013	0.040	±0.040 ppm	PASS
Aldicarb	ND	0.00 ppm	0.005	0.016	±0.016 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.005	0.016	±0.016 ppm	PASS
Bifenazate	ND	5.00 ppm	0.004	0.013	±0.013 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.002	0.007	±0.007 ppm	PASS
Boscalid	ND	10.00 ppm	0.054	0.162	±0.162 ppm	PASS
Carbaryl	ND	0.50 ppm	0.021	0.064	±0.064 ppm	PASS
Carbofuran	ND	0.00 ppm	0.004	0.013	±0.013 ppm	PASS
Chlorantraniliprole	ND	40.00 ppm	0.051	0.154	±0.154 ppm	PASS
Chlorfenapyr	NT	0.00 ppm				NA
Chlorpyrifos	ND	0.00 ppm	0.107	0.322	±0.322 ppm	PASS
Clofentezine	ND	0.50 ppm	0.020	0.059	±0.059 ppm	PASS
Coumaphos	ND	0.00 ppm	0.014	0.041	±0.041 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.019	0.058	±0.058 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.014	0.041	±0.041 ppm	PASS
Daminozide	ND	0.00 ppm	0.073	0.219	±0.219 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.037	0.112	±0.112 ppm	PASS
Diazinon	ND	0.20 ppm	0.003	0.009	±0.009 ppm	PASS
Dimethoate	ND	0.00 ppm	0.005	0.016	±0.016 ppm	PASS
Etoazoxole	ND	1.50 ppm	0.010	0.030	±0.030 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.009	0.028	±0.028 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.003	0.009	±0.009 ppm	PASS
Fipronil	ND	0.00 ppm	0.020	0.059	±0.059 ppm	PASS
Flonicamid	ND	2.00 ppm	0.260	0.779	±0.779 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.017	0.052	±0.052 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.003	0.008	±0.008 ppm	PASS
Imazail	ND	0.00 ppm	0.017	0.051	±0.051 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.003	0.009	±0.009 ppm	PASS
Malathion	ND	5.00 ppm	0.013	0.040	±0.040 ppm	PASS
Metaxalyl	ND	15.00 ppm	0.020	0.060	±0.060 ppm	PASS
Methiocarb	ND	0.00 ppm	0.010	0.029	±0.029 ppm	PASS
Methomyl	ND	0.10 ppm	0.002	0.005	±0.005 ppm	PASS
Methyl parathion	NT	0.00 ppm				NA
Mevinphos	ND	0.00 ppm	0.014	0.041	±0.041 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.002	0.007	±0.007 ppm	PASS
Naled	ND	0.50 ppm	0.014	0.041	±0.041 ppm	PASS
Oxamyl	ND	0.20 ppm	0.006	0.018	±0.018 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.007	0.022	±0.022 ppm	PASS
Permethrin	ND	20.00 ppm	0.026	0.079	±0.079 ppm	PASS
Phosmet	ND	0.20 ppm	0.008	0.023	±0.023 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.027	0.081	±0.081 ppm	PASS
Prallethrin	ND	0.40 ppm	0.010	0.029	±0.029 ppm	PASS
Propiconazole	ND	20.00 ppm	0.010	0.029	±0.029 ppm	PASS
Propoxur	ND	0.00 ppm	0.015	0.045	±0.045 ppm	PASS
Pyrethrin	ND	1.00 ppm	0.007	0.020	±0.020 ppm	PASS
Pyridaben	ND	3.00 ppm	0.002	0.007	±0.007 ppm	PASS
Spinetoram	ND	3.00 ppm	0.009	0.027	±0.027 ppm	PASS
Spinosad	ND	3.00 ppm	0.017	0.052	±0.052 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.008	0.024	±0.024 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.006	0.019	±0.019 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.002	0.007	±0.007 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.013	0.040	±0.040 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.003	0.008	±0.008 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.008	0.023	±0.023 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.006	0.018	±0.018 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE



Stillwater Laboratories Inc.

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