LaCore Nutraceuticals

Lacore Nutraceuticals
1801 S. Industrial Park
Van Alstyne, TX 75495

Certificate of Analysis

Product: FP SNAP SINGLE, RLV PROTECT **Product No.:** RLV-6-010-6-01

Customer Name: RELIV **Revision:** 00

Lot Number: 23BL09518 **Country of Origin:** U.S.A.

Manufacture Date: 3/23/2023 **Serving Size:** 1 mL

Expiration Date: 3/23/2025 **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	17.00	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**
	E. coli	USP/AOAC	Negative/10 g	Negative	-
	Mycotoxins	HPLC	NMT 20 ppb	0.0	ppb
	S.Aureus	USP/AOAC	Negative/10 g	Negative	-
	Salmonella	USP/AOAC	Negative/10 g	Negative	-
	Total Plate Count	USP/AOAC	NMT 10^3 cfu/g	0	cfu/g
	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	Conforms	ppm
	Cadmium	ICP-MS	NMT 0.5 ppm	Conforms	ppm
	Lead	ICP-MS	NMT 2 ppm	Conforms	ppm
	Mercury	ICP-MS	NMT 0.5 ppm	Conforms	ppm

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

Completed By: Tamara Treece **Date:** 5-12-2023

Quality Approved By: [signature] **Date:** 5/12/2023

LACORE Nutraceuticals

Analytical Report

Sample Reference Number: 23LL01755
Client Sample Name: RLV Protect + Lunasin 500mg
Item Code: RLV-6-010

Lot Number: 23BL09518

Test	Method	Result	Performed by
Description	Visual	Conforms	
Odor	Organoleptic	Conforms	
Taste	Organoleptic	Conforms	

Reviewed By : _____ Date: 4/18/23

Mike Rollins, Lab Technician

certificate ID
3DW110

LaCore Nutraceuticals

Reliv Protect- Lunasin 500mg CBD

7USC1639 Certificate of Analysis

Lot# 23BL09518 RLV-6-010-6-01prod. date 3/1/2023
issue date 4/30/23 10:14 PM

Stillwater Laboratories

16600
order

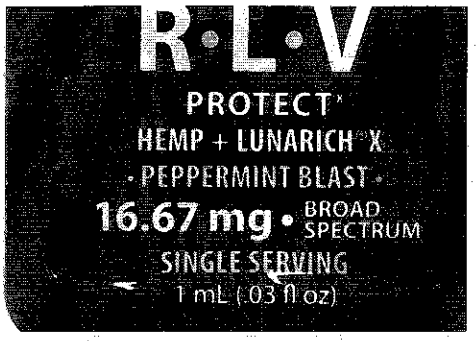
total cannabinoids 18.5mg per 0.96g mL

total THC‡ ND

total CBD‡ 17.0mg

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample received 4/28/2023 1:50:42 PM in a client-labeled sachet, collected at dispensary/grow per Method 7.3.1.1. and as described in the Montana METRC Lab User Guide. Labeled Lot and sample tag 16600.



SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency MSP-7.5.1.4

	per mL		LOD | LOQ | error
total cannabinoids	**1.934%**	**18.5mg**	**0.07 | 0.22 | ±0.53mg**
total THC‡	**ND**	**ND**	**0.07 | 0.22 | ±0.22mg**
total THC (THC+THCa)	**ND**	**ND**	**0.07 | 0.22 | ±0.22mg**
total CBD‡	1.78%	17.0mg	0.07 | 0.22 | ±0.51mg
total CBD (CBD+CBDa)	1.78%	17.0mg	0.07 | 0.22 | ±0.51mg
tetrahydrocannabolic acid (THCa)	ND	ND	0.07 | 0.22 | ±0.22mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	ND	0.07 | 0.21 | ±0.21mg
Δ8-tetrahydrocannabinol (Δ8 THC)*	ND	ND	0.09 | 0.28 | ±0.28mg
tetrahydrocannabivarin (THCv)	ND	ND	0.08 | 0.24 | ±0.24mg
cannabidiolic acid (CBDa)	ND	ND	0.06 | 0.19 | ±0.19mg
cannabidiol (CBD)	1.78%	17.0mg	0.07 | 0.22 | ±0.51mg
cannabidivarin (CBDv)	ND	ND	0.07 | 0.22 | ±0.22mg
cannabigerolic acid (CBGa)	ND	ND	0.07 | 0.20 | ±0.20mg
cannabigerol (CBG)	0.082%	0.8mg	0.02 | 0.06 | ±0.08mg
cannabinol (CBN)	0.033%	0.3mg	0.04 | 0.12 | ±0.13mg
cannabichromene (CBC)	0.034%	0.3mg	0.07 | 0.22 | ±0.23mg

Pass / Fail Criteria

Microbial MSP-7.5.1.10b

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

Mycotoxins MSP-7.5.1.8

FAIL: no failures
PASS: Ochratoxin A, Aflatoxin B1B2G1G2, Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2

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, Chloantraniliprole, 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, Ethyl acetate, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes

Certified by:

ACCREDITED
CERT #s 4961.01, 4961.02 & 4961.03

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

Stillwater Laboratories Inc.
MT License L100060-002
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Ph 406-881-2019. www.stwlabs.com

These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calcuated as: [cannabioid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. •• Decarboxyted cannabinoid concentration is calculated $XXX_{total} = 0.877 \times XXXa + XXX$ ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), 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) $\pm t_{CL90} \times s_g$. 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
3DW110

LaCore Nutraceuticals

Reliv Protect- Lunasin 500mg CBD

Lot# 23BL09518 RLV-6-010-6-01

ANALYTICAL DATA

Report Version: 1
Analysis Location: L-100060-

Stillwater Laboratories

order 16600
rec'd date 4/28/2023 1:50:42 PM
issue date 4/30/2023 10:14:51 PM

16600
order

Methods and Instruments

MSP-7.3.1.1	BAL-05	4/28/2023		MSP-7.5.1.7	QP2020/HS20	4/29/2023	L-100060-002
MSP-7.5.1.2	YSC HD801m12	4/29/2023		MSP-7.5.1.8	LCMS8060	4/29/2023	
MSP-7.5.1.3	6MOC63u	4/29/2023		MSP-7.5.1.8	LCMS8060	4/29/2023	
MSP-7.5.1.4	LC-2030C	4/29/2023	L-100060-002	MSP-7.5.1.10b	Aria MX	4/29/2023	
MSP-7.5.1.6	QP2020/HS20	4/29/2023		MSP-7.5.1.11	ICPMS2030	4/29/2023	

Mycotoxins MSP-7.5.1.8

		limit	LOD	LOQ	error	result
Ochratoxin A	ND	20 ppb	0.8	2.4	±2.4 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.8	2.5	±2.5 ppb	PASS

Microbial MSP-7.5.1.10b

		limit	LOD	LOQ	error	result
Salmonella (PCR)	ND	0CFU	0.0	0.1	±0.1CFU	PASS
STEC (PCR)	ND	0CFU	1.4	4.1	±4.1CFU	PASS
A. flavus (PCR)	ND	0CFU	1.4	4.1	±4.1CFU	PASS
A. fumigatus (PCR)	ND	0CFU	1.4	4.1	±4.1CFU	PASS
A. terreus (PCR)	ND	0CFU	1.4	4.1	±4.1CFU	PASS
A. niger (PCR)	ND	0CFU	1.4	4.1	±4.1CFU	PASS

Solvents MSP-7.5.1.7

		limit	LOD	LOQ	error	result
Acetone	<LOQ	5000 ppm	0.6	1.6	±1.6 ppm	PASS
Acetonitrile	ND	410 ppm	0.5	1.6	±1.6 ppm	PASS
Benzene	ND	0 ppm	0.0	0.1	±0.1 ppm	PASS
Butane	ND	5000 ppm	1.2	3.6	±3.6 ppm	PASS
Chloroform	ND	0 ppm	0.1	0.2	±0.2 ppm	PASS
Cyclohexane	ND	0 ppm	0.5	1.4	±1.4 ppm	PASS
Ethanol	3 ppm	10000 ppm	0.6	1.8	±1.8 ppm	PASS
Ethyl acetate	ND	5000 ppm	0.0	0.1	±0.1 ppm	PASS
Heptane	ND	5000 ppm	0.4	1.1	±1.1 ppm	PASS
Hexane	ND	290 ppm	0.5	1.4	±1.4 ppm	PASS
Isopropyl alcohol	3 ppm	5000 ppm	0.5	1.6	±1.7 ppm	PASS
Methanol	ND	3000 ppm	0.5	1.4	±1.4 ppm	PASS
Methylene chloride	NT	0 ppm				NA
Pentane	ND	5000 ppm	0.2	0.5	±0.5 ppm	PASS
Propane	ND	5000 ppm	0.5	1.4	±1.4 ppm	PASS
Toluene	ND	890 ppm	0.3	0.8	±0.8 ppm	PASS
Xylenes	ND	2170 ppm	0.3	0.9	±0.9 ppm	PASS

Metals MSP-7.5.1.7

		limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	3.7	11.2	±11.2 ppt	PASS
Cadmium	ND	500 ppb	4.0	12.1	±12.1 ppt	PASS
Lead	ND	500 ppb	6.3	18.8	±18.8 ppt	PASS
Mercury	ND	300 ppb	3.2	9.5	±9.5 ppt	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_a), 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) ± t_{CL90} x 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	0.014	0.042	±0.042 ppm	PASS
Acephate	ND	5.00 ppm	0.015	0.044	±0.044 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.012	0.037	±0.037 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.010	0.030	±0.030 ppm	PASS
Aldicarb	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.004	0.012	±0.012 ppm	PASS
Bifenazate	ND	5.00 ppm	0.003	0.009	±0.009 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.002	0.005	±0.005 ppm	PASS
Boscalid	ND	10.00 ppm	0.040	0.120	±0.120 ppm	PASS
Carbaryl	ND	0.50 ppm	0.016	0.048	±0.048 ppm	PASS
Carbofuran	ND	0.00 ppm	0.003	0.010	±0.010 ppm	PASS
Chlorantraniliprole	ND	40.00 ppm	0.038	0.114	±0.114 ppm	PASS
Chlorfenapyr	NT	0.00 ppm				NA
Chlorpyrifos	ND	0.00 ppm	0.079	0.238	±0.238 ppm	PASS
Clofentezine	ND	0.50 ppm	0.015	0.044	±0.044 ppm	PASS
Coumaphos	ND	0.00 ppm	0.010	0.030	±0.030 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.014	0.043	±0.043 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.010	0.030	±0.030 ppm	PASS
Daminozide	ND	0.00 ppm	0.054	0.162	±0.162 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.028	0.083	±0.083 ppm	PASS
Diazinon	ND	0.20 ppm	0.002	0.007	±0.007 ppm	PASS
Dimethoate	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Etoxazole	ND	1.50 ppm	0.007	0.022	±0.022 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.007	0.021	±0.021 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.002	0.007	±0.007 ppm	PASS
Fipronil	ND	0.00 ppm	0.015	0.044	±0.044 ppm	PASS
Flonicamid	ND	2.00 ppm	0.192	0.577	±0.577 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.013	0.038	±0.038 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.002	0.006	±0.006 ppm	PASS
Imazalil	ND	0.04 ppm	0.013	0.038	±0.038 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.002	0.007	±0.007 ppm	PASS
Malathion	ND	5.00 ppm	0.010	0.030	±0.030 ppm	PASS
Metalaxyl	ND	15.00 ppm	0.015	0.044	±0.044 ppm	PASS
Methiocarb	ND	0.00 ppm	0.007	0.021	±0.021 ppm	PASS
Methomyl	ND	0.10 ppm	0.001	0.003	±0.003 ppm	PASS
Methyl Parathion	NT	0.00 ppm				NA
Mevinphos	ND	0.00 ppm	0.010	0.030	±0.030 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.002	0.005	±0.005 ppm	PASS
Naled	ND	0.50 ppm	0.010	0.030	±0.030 ppm	PASS
Oxamyl	ND	0.20 ppm	0.004	0.013	±0.013 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.005	0.016	±0.016 ppm	PASS
Permethrin	ND	20.00 ppm	0.019	0.058	±0.058 ppm	PASS
Phosmet	ND	0.20 ppm	0.006	0.017	±0.017 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.020	0.060	±0.060 ppm	PASS
Prallethrin	ND	0.40 ppm	0.007	0.022	±0.022 ppm	PASS
Propiconazole	ND	20.00 ppm	0.007	0.022	±0.022 ppm	PASS
Propoxur	ND	0.00 ppm	0.011	0.033	±0.033 ppm	PASS
Pyrethrin	ND	1.00 ppm	0.005	0.015	±0.015 ppm	PASS
Pyridaben	ND	3.00 ppm	0.002	0.005	±0.005 ppm	PASS
Spinetoram	ND	3.00 ppm	0.007	0.020	±0.020 ppm	PASS
Spinosad	ND	3.00 ppm	0.013	0.038	±0.038 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.006	0.018	±0.018 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.005	0.014	±0.014 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.002	0.005	±0.005 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.010	0.029	±0.029 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.002	0.006	±0.006 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.006	0.017	±0.017 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.004	0.013	±0.013 ppm	PASS

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