


Certificate of Analysis

Product: FP TINCTURE, 30ML, RLV F/S SLEEP 500MG **Product No.:** RLV-6-009-2-30
Customer Name: RELIV **Revision:** 00
Lot Number: 22C0368011 **Country of Origin:** U.S.A.
Manufacture Date: 10/3/2022 **Serving Size:** 1 mL
Expiration Date: 10/3/2024 **Packaging Type:** Tincture

Physical	Test	Method	Specification	Results	Units
	Appearance	Visual	Amber to Light Brownish Oily Liquid	Conforms	-
	Odor	Organoleptic	Slight Hemp with Citrus Mint	Conforms	-
	Taste	Organoleptic	Sweet Orange	Conforms	-
Chemistry	Test	Method	Specification	Results	Units
	CBD	HPLC	NLT 16.67 mg/serving	16.90	mg/serving
	Melatonin	USP	NLT 3 mg/serving	3	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
	S.Aureus	USP/AOAC	Negative/10 g	Conforms	
	Salmonella	USP/AOAC	Negative/10 g	Negative	-
	Total Plate Count	USP/AOAC	NMT 10 ³ cfu/g	Conforms	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:  **Date:** 10/21/22



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

Quality Approved By: Marcus P. White

Date: 10-21-2027

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certificate ID
2KN48

LaCore Nutraceuticals
Reliv Sleep 500mg

7USC1639 Certificate of Analysis



Lot# 22C0368011

issue date 10/21/22 1:30 PM

Stillwater
Laboratories

15350
order


total cannabinoids per 0.95g
17.9mg mL

total THC‡ **ND**
total CBD‡ **16.9mg**

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample (30.00g) received 10/18/2022 10:32:39 AM in a client-labeled bottle, by commercial courier per Method 7.3.1.1. and as described in the Montana METRC Lab User Guide. 1 per container. Labeled Lot.



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

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency	MSP-7.5.1.4	per mL	LOD	LOQ	error
total cannabinoids	1.888%	17.9mg	0.34	1.02	±1.32mg
total THC‡	ND	ND	0.34	1.02	±1.02mg
total THC (THC+THCa)	ND	ND	0.34	1.02	±1.02mg
total CBD‡	1.781%	16.9mg	0.34	1.02	±1.31mg
total CBD (CBD+CBDA)	1.782%	16.9mg	0.34	1.02	±1.31mg
tetrahydrocannabinolic acid (THCa)	ND	ND	0.35	1.04	±1.04mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	ND	0.33	1.08	±0.98mg
Δ8-tetrahydrocannabinol (Δ8 THC)*	ND	ND	0.44	1.31	±1.31mg
tetrahydrocannabivarin (THCv)	ND	ND	0.36	1.09	±1.09mg
cannabidiolic acid (CBDA)	ND	ND	0.30	1.00	±0.90mg
cannabidiol (CBD)	1.77%	16.8mg	0.34	1.03	±1.31mg
cannabidivarin (CBDv)	ND	ND	0.34	1.03	±1.03mg
cannabigerolic acid (CBGA)	ND	ND	0.31	1.02	±0.92mg
cannabigerol (CBG)	ND	ND	0.10	0.29	±0.29mg
cannabinol (CBN)	ND	ND	0.19	0.56	±0.56mg
cannabichromene (CBC)	<LOQ	<LOQ	0.34	1.02	±1.03mg

Terpenes	MSP-7.5.1.6	LOD	LOQ	error
total terpenes	0.058%	0.0008	0.0025	±0.0040%
linalool	ND	<0.0010	0.0012	±0.0012%
β-myrcene	<LOQ	0.0009	0.0027	±0.0027%
D-limonene	0.053%	0.0005	0.0016	±0.0030%
α-pinene	<LOQ	<0.0010	0.0010	±0.0011%
β-pinene	ND	0.0008	0.0023	±0.0023%
ocimene	ND	0.0015	0.0046	±0.0046%
terpinolene	ND	0.0011	0.0033	±0.0033%
α-humulene	ND	0.0007	0.0022	±0.0022%
β-caryophyllene	ND	0.0021	0.0062	±0.0062%
α-bisabolol	ND	0.0017	0.0050	±0.0050%
camphene	ND	0.0009	0.0028	±0.0028%
Δ3-carene	ND	0.0041	0.0123	±0.0123%
caryophyllene oxide	ND	0.0026	0.0079	±0.0079%
para-cymene	ND	0.0155	0.0465	±0.0465%
eucalyptol	ND	0.0022	0.0065	±0.0065%
geraniol	ND	0.0065	0.0194	±0.0194%
guaiol	ND	0.0021	0.0062	±0.0062%
isopulegol	ND	0.0020	0.0061	±0.0061%
cis-nerolidol	ND	0.0035	0.0104	±0.0104%
trans-nerolidol	ND	0.0017	0.0052	±0.0052%
α-terpinene	ND	0.0011	0.0032	±0.0032%

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.

Moisture MSP-7.5.1.3
not required / not requested

Metals MSP-7.5.1.7

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

Certified by:

Paula Kosted, PhD
Deputy Director

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, Pacloutrazol, 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



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

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These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} X volume_{dilution}/m_{dry}. • Decarboxyated cannabinoid concentration is calculated 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; 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_g² = Σ (δi/θi)² s_i² 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. ‡ = decarbed, * = analyte is off-scope.

certificate ID

2KN48

LaCore Nutraceuticals

Reliv Sleep 500mg

Lot# 22C0368011

ANALYTICAL DATA

Stillwater Laboratories

Report Version: 1
Analysis Location: L-100060-



15350

order

order 15350
rec'd date 10/18/2022 10:32:39 AM
issue date 10/21/2022 1:30:19 PM

Methods and Instruments

Table with columns: Method ID, Instrument, Date, Method Name, Instrument Name, Date, Sample ID

Mycotoxins

Table with columns: Method ID, Instrument, Limit, LOD, LOQ, Error, Result

Microbial

Table with columns: Method ID, Instrument, Limit, LOD, LOQ, Error, Result

Solvents

Table with columns: Method ID, Instrument, Limit, LOD, LOQ, Error, Result

Metals

Table with columns: Method ID, Instrument, Limit, LOD, LOQ, Error, Result

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((df/di)^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.

Certified by:

Signature of Paula Kosted

Paula Kosted, PhD (Blochem)
Deputy Director

Pesticides

Table with columns: Pesticide Name, Method ID, Instrument, Limit, LOD, LOQ, Error, Result

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