

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: 23BLS9520 **Country of Origin:** U.S.A.
Manufacture Date: 4/5/2023 **Serving Size:** 1 mL
Expiration Date: 4/5/2025 **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	20.40	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)	0.04	%

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: Tomas Arriaga **Date:** 5-12-2023
Quality Approved By: [Signature] **Date:** 5/12/23 **Page:** 1/1

certificate ID
3ED122



16668
order

LaCore Nutraceuticals
Reliv Sleep 500mg

strain
license
sample ID Lot# 23BLS9520 RLV009
source ID 1Z600R3R0199749664

prod. date 4/27/2023
issue date 5/7/23 6:52 PM

total cannabinoids per 0.95g total THC‡ 0.4mg
21.6mg mL total CBD‡ 20.4mg

7USC1639 Certificate of Analysis

Stillwater
Laboratories

Incoming Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample received 5/5/2023 2:26:39 PM in a client-labeled bottle, by commercial courier per Method 7.3.1.1, and as described in the Montana METRC Lab User Guide. Labeled Lot and sample tag 16668.



SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Potency	MSP-7.5.1.4	per mL	LOD	LOQ	error
total cannabinoids	2.271%	21.6mg	0.05	0.16	±0.52mg
total THC‡	0.047%	0.4mg	0.05	0.16	±0.16mg
total THC (THC+THCa)	0.048%	0.5mg	0.05	0.16	±0.16mg
total CBD‡	2.144%	20.4mg	0.05	0.16	±0.49mg
total CBD (CBD+CBDA)	2.144%	20.4mg	0.05	0.16	±0.49mg
tetrahydrocannabinolic acid (THCa)	<LOQ	<LOQ	0.05	0.16	±0.16mg
Δ9-tetrahydrocannabinol (Δ9 THC)	0.042%	0.4mg	0.05	0.15	±0.16mg
Δ8-tetrahydrocannabinol (Δ8 THC)*	ND	ND	0.07	0.20	±0.20mg
tetrahydrocannabivarin (THCv)	ND	ND	0.06	0.17	±0.17mg
cannabidiolic acid (CBDA)	ND	ND	0.05	0.14	±0.14mg
cannabidiol (CBD)	2.144%	20.4mg	0.05	0.16	±0.50mg
cannabidivarin (CBDv)	ND	ND	0.05	0.16	±0.16mg
cannabigerolic acid (CBGA)	ND	ND	0.05	0.14	±0.14mg
cannabigerol (CBG)	0.016%	0.2mg	0.01	0.04	±0.05mg
cannabinol (CBN)	ND	ND	0.03	0.09	±0.09mg
cannabinchromene (CBC)	0.059%	0.6mg	0.05	0.16	±0.17mg

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-7.6.1.8

FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methidathion, 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:



https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B007

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

These results are only valid for the samples tested. • Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. ** Decarboxyted 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_e² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} x s_e. 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

3ED122

LaCore Nutraceuticals

ANALYTICAL DATA

Stillwater Laboratories



Reliv Sleep 500mg

Report Version: 1
Analysis Location: L-100060-

sample ID Lot# 23BLS9520 RLV009
source ID 1Z600R3R0199749664
order 16668
rec'd date 5/5/2023 2:26:39 PM
issue date 5/7/2023 6:52:09 PM

16668
order

Methods and Instruments

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

Mycotoxins

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

Microbial

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

Solvents

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

Metals

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

Pesticides

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

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

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_p^2 = sum((df/di)^2 * s_i^2) where i is the contributor to error. The 95% confidence range is calculated from: (concentration) +/- t_CL95 * s_p. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable.

Certified by:

[Signature]





Analytical Report

1309 Record Crossing Rd
Dallas, TX 75235

Report Date: 05/12/2023

Work Order: CHSG230504-028
Received Date: 05/04/2023
P.O. #:

Client: LaCore Nutraceuticals Labs, LLC
1801 S. Industrial Pkwy
Van Alstyne, TX 75495
Client Contact: Stacey Joseph

Comments:


Sample Num: 23CH05574

Lot Number: 23BLS9520

Client Sample Num: RLV 500 Sleep

Comments:

<u>Analysis</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Analysis Date</u>	<u>Approval Date</u>
Melatonin	Spatula DD. 2012; 2(3):147-151	3	mg/svg	05/11/2023	05/12/2023

Reviewed by: 
Cheri Turman, PhD., Vice President