



# CERTIFICATE OF ANALYSIS

PREPARED FOR:



**RELIV INTERNATIONAL, INC.**

136 CHESTERFIELD INDUSTRIAL BLVD.  
CHESTERFIELD, MO 63005

THIS REPORT IS FOR A FULL BATCH TESTING  
LABORATORY BATCH ID: **RLV-FS500.SLEEP.012**

Including Fill Lot ID:

**19LL223A11**



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# RLV 500 mg FULL SPECTRUM SLEEP EXTRACT

**Batch ID:** RLV-FS500.SLEEP.19LL223A11  
**Received:** 22-Nov-2019  
**Matrix:** Concentrates/Extracts

**Certificate ID:** 120519SR014  
**Test Type:** Potency  
**Method:** Tested in accordance of the requirements of ISO/IEC 17025:2005/2017



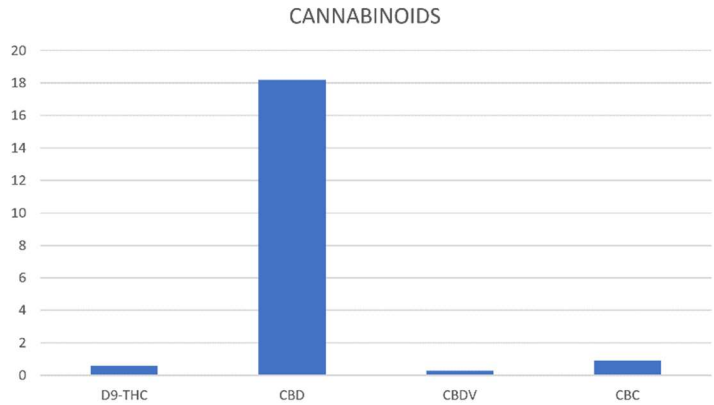
The data presented in this report has been reviewed in an accredited laboratory. I attest that the information herein has been checked for accuracy and against quality control requirements for each test method used. These results pertain only to the test materials listed in this report. This report may not be reproduced except in its complete entirety.

Dan Krist  
*Dan Krist*  
 Lab Manager  
 SS BioMed, Inc.

## T1: CANNABINOID PROFILE & POTENCY

The tested sample was analyzed (by Liquid Chromatography, LC) for plant-based cannabinoids. All collected data was compared to laboratory certified reference standards at known concentrations.

ID	Weight %	Conc. mg/mL
D9-THC	0.029	0.291
THCV	ND	ND
CBD	1.827	18.268
CBDV	0.007	0.074
CBG	ND	ND
CBC	0.066	0.658
CBN	ND	ND
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
D8-THC	ND	ND
exo-THC	ND	ND
<b>TOTAL:</b>	<b>1.929</b>	<b>19.291 mg/mL</b>
<b>Max THC:</b>	<b>0.029</b>	<b>0.291 mg/mL</b>
<b>Max CBD:</b>	<b>1.827</b>	<b>18.268 mg/mL</b>



Max THC and Max CBD are calculated values for total cannabinoids assuming complete decarboxylation of the acid to the neutral form. Calculation is based on the weight loss of the acid group during decarboxylation. **THC Minimum Detectable Limit** = 0.001 ng/mL  
**ND** = None detected above the limits of detection (LLD)  
**trace** = <0.015 mg/mL



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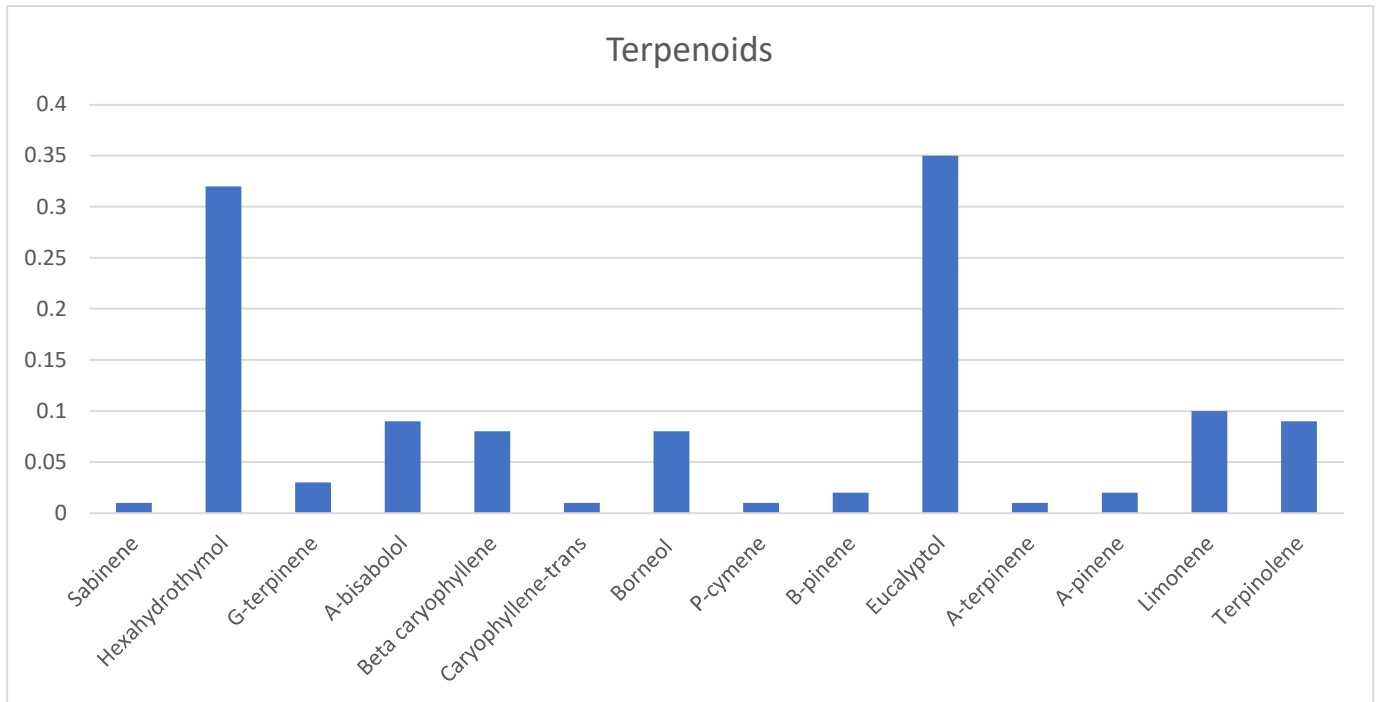
## T2: TERPENE PROFILE

The tested sample was analyzed (by Head Space Gas Chromatography, HS-GC) for plant-based terpenoids. All collected data was compared to laboratory certified reference standards at known concentrations.

ID	Weight %	Conc. mg/mL
A-phellandrene	0.000	0.00
Fenchone	0.000	0.00
Sabinene	0.001	0.01
Hexahydrothymol	0.031	0.31
Myrcene	0.000	0.00
Isopulegol	0.000	0.00
Nerolidol-cis	0.000	0.00
G-terpinene	0.002	0.02
Nerolidol-trans	0.000	0.00
A-bisabolol	0.008	0.08
Linalool	0.000	0.00
Beta caryophyllene	0.008	0.08
Caryophyllene-trans	0.001	0.01
Borneol	0.007	0.07

ID	Weight %	Conc. mg/mL
Guaiol	0.000	0.00
Humulene	0.000	0.00
P-cymene	0.001	0.01
Camphene	0.000	0.00
B-pinene	0.002	0.02
Eucalyptol	0.035	0.35
A-terpinene	0.001	0.01
3-carene	0.000	0.00
A-pinene	0.002	0.02
Limonene	0.010	0.10
Geraniol	0.000	0.00
Ocimene-1	0.000	0.00
Ocimene-2	0.000	0.00
Terpinolene	0.008	0.08

TOTAL WT %: 0.117%



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	Limits	Result	Status
<b>T3: Microbiological Contaminants<sup>1</sup></b>			
Total Aerobic Bacterial Count	10,000 CFU/g	Conforms	PASS
Total Coliform Bacterial Count	100 CFU/g	Conforms	PASS
Total Yeast & Mold	1,000 CFU/g	Conforms	PASS
<b>T4: Pathogenic Bacterial Contaminants<sup>1</sup></b>			
E. Coli (O157)	NA	Negative	PASS
Salmonella	NA	Negative	PASS
<b>T5: Heavy Metal Analysis</b> using Inductively Coupled Plasma Mass Spectrometry (ICP-MS)			
Arsenic	<2 ppm	Conforms	PASS
Cadmium	<2 ppm	Conforms	PASS
Lead	<1 ppm	Conforms	PASS
Mercury	<1 ppm	Conforms	PASS
<b>T6: Pesticide Analysis</b> using Liquid Chromatography with Mass Spectrometry (LC/MS)			
Abamectin	300 ppb	None Detected	PASS
Abamectin B1b	300 ppb	None Detected	PASS
Azoxystrobin	40,000 ppb	None Detected	PASS
Bifenazate	5,000 ppb	None Detected	PASS
Bifenthrin	500 ppb	None Detected	PASS
Cyfluthrin	1,000 ppb	None Detected	PASS
Daminozide	10 ppb	None Detected	PASS
Etoxazole	1,500 ppb	None Detected	PASS
Fenoxycarb	10 ppb	None Detected	PASS
Imazalil	10 ppb	None Detected	PASS
Imidacloprid	3,000 ppb	None Detected	PASS
Myclobutanil	9,000 ppb	None Detected	PASS
Paclobutrazol	10 ppb	None Detected	PASS
Piperonyl butoxide	8,000 ppb	None Detected	PASS
Pyrethrin	1,000 ppb	None Detected	PASS
Spinosad	3,000 ppb	None Detected	PASS
Spiromesifen	12,000 ppb	None Detected	PASS
Spirotetramat	13,000 ppb	None Detected	PASS
Trifloxystrobin	30,000 ppb	None Detected	PASS
<b>T7: Active Diols</b> using Liquid Chromatography (LC)			
	Potency	Results per 30mL	Status
CBD	18.268 mg/serving	548.04 mg	PASS
D-9 THC	0.291 mg/serving	8.73 mg	PASS
CBDV	0.074 mg/serving	2.22 mg	PASS
CBC	0.658 mg/serving	19.74 mg	PASS

<sup>1</sup> Contaminant detection testing in accordance with AOAC – OMA #2014.05, USP 2021, and USP 2022

**-END OF REPORT-**



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