



License No. 800463015  
FL License # CMTL-0133  
CLIA No. 10D1095468

# Certificate of Analysis

## Compliance Test

**Stirling Professional**  
2500 Regency Parkway  
Suite 283 Cary, NC 27518

Batch # SPRO5 "Best By 09/2026"  
Batch Date: 2024-08-16  
Extracted From:hemp

Sampling Method: MSP 7.5.1  
Test Reg State: Florida

Order #ONE218721-050361  
Order Date: 2024-08-16  
Sample # AADP350

Sampling Date: 2024-08-16  
Lab Batch Date: 2024-08-16  
Completion Date: 2024-09-16

Initial Gross Weight: 8500.48mg  
Net Weight: 8.50048 g

Number of Units: 1  
Net Weight per Unit: 8500.48mg



Product Image

<b>Potency Tested</b>	<b>Potency 11 (LCMS) Tested</b>	<b>Terpenes Tested</b>	<b>Heavy Metals Passed</b>	<b>Mycotoxins Passed</b>
<b>Pesticides Passed</b>	<b>Residual Solvents Passed</b>	<b>Water Activity Tested</b>	<b>Microbiology (qPCR) Passed</b>	

### Potency - 20

Specimen Weight: 101.132 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.002	16.98	1.698
CBN	10.000	0.000014	0.002	0.561	0.056
CBC	10.000	0.000018	0.002	0.245	0.025
CBL	10.000	0.000035	0.002	<LOQ	<LOQ
THCVA	10.000	0.000047	0.002	<LOQ	<LOQ
CBDA	10.000	0.00001	0.002	<LOQ	<LOQ
CBDV	10.000	0.000065	0.002	<LOQ	<LOQ
CBDVA	10.000	0.000014	0.002	<LOQ	<LOQ
CBG	10.000	0.000248	0.002	<LOQ	<LOQ
THCV	10.000	0.000007	0.002	<LOQ	<LOQ
CBGA	10.000	0.00008	0.002	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.002	<LOQ	<LOQ
Exo-THC	10.000	0.00023	0.002	<LOQ	<LOQ
Delta-9 THC	10.000	0.000013	0.002	<LOQ	<LOQ
CBCA	10.000	0.000107	0.002	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.002	<LOQ	<LOQ
Delta-10 THC	10.000	0.000003	0.002	<LOQ	<LOQ
CBT	10.000	0.0002	0.002	<LOQ	<LOQ
CBNA	10.000	0.000095	0.002	<LOQ	<LOQ
Delta-8 THCv	10.000	0.00004	0.002	<LOQ	<LOQ

Tested (HPLC)

### Potency Summary

<b>Total THC</b> None Detected	<b>Total CBD</b> 1.698%	<b>Total CBD</b> 1414.658mg
<b>Total CBG</b> None Detected	<b>Total CBN</b> 0.056%	<b>Total CBN</b> 50.523mg
<b>Other Cannabinoids</b> 0.025%	<b>Total Cannabinoids</b> 31.422mg	<b>Total Cannabinoids</b> 0.508% 1496.603mg

### Terpenes Summary

Analyte	Result (mg/g)(%)
Eucalyptol	14.797 1.64%
Isoborneol	4.292 0.419%
Hexahydrothymol	2.443 0.245%
Sabinene	2.012 0.201%
alpha-Pinene	1.392 0.169%
alpha-Phellandrene	0.69 0.041%
Linalool (R)-(+)	0.674 0.051%
Limonene	0.604 0.06%
beta-Pinene	0.538 0.034%
Geranyl acetate	0.478 0.028%
beta-Myrcene	0.452 0.055%

**Total Terpenes: 2.943%**

Detailed Terpenes Analysis is on the following page

Xueli Gao Lab Toxicologist  
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Initial Gross Weight: 8500.48mg  
Net Weight: 8.50048 g

Number of Units: 1  
Net Weight per Unit: 8500.48mg



## Terpenes

Specimen Weight: 98.260 mg

Dilution Factor: 20.000

**Tested**

(GC/GCMS)

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Eucalyptol	0.02	14.797	1.480	Isoborneol	0.02	4.292	0.429
Hexahydrothymol	0.02	2.443	0.244	Sabinene	0.02	2.012	0.201
alpha- Pinen e	0.02	1.392	0.139	alpha- Phellandrene	0.02	0.690	0.069
Linalool	0.02	0.674	0.067	(R)- (+)- Limonene	0.02	0.604	0.060
beta- Pinene	0.02	0.538	0.054	Geranyl acetate	0.02	0.478	0.048
beta- Myrcen e	0.02	0.452	0.045	Sabinene Hydrate	0.02	<LOQ	<LOQ
Geraniol	0.02	<LOQ	<LOQ	Pulegone	0.02	<LOQ	<LOQ
Ocimene	0.014	<LOQ	<LOQ	Nerol	0.02	<LOQ	<LOQ
Terpinolen e	0.02	<LOQ	<LOQ	Isopulegol	0.02	<LOQ	<LOQ
Total Terpeneol	0.02	<LOQ	<LOQ	trans- Caryophyllene	0.02	<LOQ	<LOQ
trans- Nerolidol	0.02	<LOQ	<LOQ	Guaiol	0.02	<LOQ	<LOQ
(+)-Cedrol	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
3-Carene	0.02	<LOQ	<LOQ	alpha- Bisabolol	0.02	<LOQ	<LOQ
alpha- Cedren e	0.02	<LOQ	<LOQ	alpha-Humulene	0.02	<LOQ	<LOQ
alpha- Terpinene	0.02	<LOQ	<LOQ	Gamma-Terpinene	0.02	<LOQ	<LOQ
Borneol	0.04	<LOQ	<LOQ	Camphene	0.02	<LOQ	<LOQ
Camphors	0.04	<LOQ	<LOQ	Caryophyllene oxide	0.02	<LOQ	<LOQ
cis- Nerolidol	0.02	<LOQ	<LOQ	Farnesene	0.02	<LOQ	<LOQ
Fenchyl Alcohol	0.02	<LOQ	<LOQ	Valencene	0.02	<LOQ	<LOQ

**Total Terpenes: 2.836%**

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixia Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



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Sample # AADp350

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Initial Gross Weight: 8500.48mg  
Net Weight: 8.50048 g

Number of Units: 1  
Net Weight per Unit: 8500.48mg

Analyte	Potency - 11 (LCMS)		Result (mg/g)	Tested (LCMS)
	LOD (%)	LOQ (%)		
CBDA	0.00001	0.002		

Heavy Metals				Passed (ICP-MS)			
Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

Mycotoxins				Passed (LCMS)			
Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

*Xueli Gao*  
Xueli Gao Lab Toxicologist  
Ph.D., DABT

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Lab Batch Date: 2024-08-16  
Completion Date: 2024-09-16

Initial Gross Weight: 8500.48mg  
Net Weight: 8.50048 g

Number of Units: 1  
Net Weight per Unit: 8500.48mg



### Pesticides FL V4

Specimen Weight: 160.810 mg  
Dilution Factor: 9.328

**Passed**  
(LCMS/GCMS)

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinolol	48	2000	<LOQ	Acetaminiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chlormequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyuthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Fonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metalaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Pacloutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trioxystrobin	30	3000	<LOQ				

*Xueli Gao*  
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Ph.D., DABT  
Lab Toxicologist

*Aixia Sun*  
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D.H.Sc., M.Sc., B.Sc., MT (AAB)  
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Extracted From: hemp

Sampling Method: MSP 7.5.1  
Test Reg State: Florida

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Order Date: 2024-08-16  
Sample # AADp350

Sampling Date: 2024-08-16  
Lab Batch Date: 2024-08-16  
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Initial Gross Weight: 8500.48mg  
Net Weight: 8.50048 g

Number of Units: 1  
Net Weight per Unit: 8500.48mg

### Residual Solvents - FL (CBD)

Specimen Weight: 137.600 mg

Dilution Factor: 5000.000

**Passed**  
(GCMS)

Analyte	LOQ	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

### Water Activity

Specimen Weight: 0.500 g

Dilution Factor: 1.000

**Tested**  
(Water Activity Analyzer)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.305

*Xueli Gao*  
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Center, FL 33573  
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Net Weight per Unit: 8500.48mg



### Microbiology (qPCR)

Specimen Weight: 238.460 mg

Dilution Factor: 1.000

**Passed**  
(qPCR)

Analyte	Result	Analyte	Result
Total Aerobic Count	Passed	Total Coliform	Passed
Total Enterobacteriaceae	Passed	Total Yeast/Mold	Passed

*Xuelli Gao*  
Xuelli Gao  
Ph.D., DABT  
Lab Toxicologist

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D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*Total THCV = THCV + (THCVA \* 0.87), \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Total CBC = CBC + (CBCA \* 0.877), \*Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, \*Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THC + Total CBC + Total CBDV + Delta10-THC, \*Total THC-O-Acetate = Delta 8 THC-O-Acetate + THC-O-Acetate, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, \*Measurement of Uncertainty = +/- 5%  
*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*



## MENTHOL SPORTS ROLL-ON 1500mg

Issue Date 01/07/2025  
Revision Date 01/07/2025

Ref. 20250107

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Menthol Sports Roll-on 1500mg CBD
Product Use	Personal Care
Restrictions for use	See Section 16
Manufacturer/Supplier	Stirling Oils 2500 Regency Parkway Suite 283 Cary, NC 27518 USA
Product Information	800-201-2840 X2
Product Ingredients	Magnesium Chloride, Purified Water, Aloe Vera Juice, Arnica, CBD Isolate, Menthol, Peppermint, Spearmint, Eucalyptus, Clove, Lemon, Cinnamon, Rosemary, Frankincense, Myrrh.
Product Variation	Menthol
Product formula	1500mg CBD

### SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

**Others Hazards**

No applicable data available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product does not contain components that require disclosure according to OSHA Communication Standard 2012.

**SECTION 4. FIRST AID MEASURES**

General advice	No applicable data available
Inhalation	No hazards which require special first aid measures.
Skin contact	No hazards which require special first aid measures.
Eye contact	Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Ingestion	No hazards which require special first aid measures.
Most important symptoms/ effects, acute & delayed	No applicable data available.
Protection of first-aiders	No applicable data available.
Notes to physician	No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	Water, Foam, Dry Chemical, Carbon Dioxide (CO2)
Unsuitable extinguishing Media	No applicable data available.
Specific hazards	Exposure to decomposition products may be hazardous. to health.
Special protective	No self-contained breathing apparatus and protective equipment needed.
Further information	Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.



**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before preceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)	No applicable data available.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Spill clean-up	Contain spillage, sweep up and transfer to a container for disposal according to local/national regulations (see section 13).
Accidental release measure	No applicable data available.

**SECTION 7. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Handling (Personnel)	No special precautions are needed in handling this material
Handling (Physical Aspects)	No applicable data available.
Dust explosion class	No applicable data available.
Storage	Store in a cool, dry place. Keep container closed to prevent contamination. Protect from exposure to light.
Storage period	No applicable data available.
Storage temperature Maximum temperature	No applicable data available. 30° C (86° F)

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
Respiratory	A respiratory program that meets country requirements protection must be followed whenever workplace conditions warrant respirator use. Consult the OSHA respiratory protection information located at 29CFR 1910.134.
Eye protection	No safety glasses with side shields needed.

Skin and body No skin/body protection needed.

Exposure Guidelines This product does not contain any exposure limits that exposure limit values require disclosure according to OSHA Hazard Communication Standard 2012.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Physical state	Liquid
Form	Gel
Color	White
Odor	Characteristic
Odor threshold	No applicable data available.
pH	4.2-5.8
Melting point/ Freezing point	No applicable data available
Boiling point	No applicable data available
Flash point	No applicable data available
Evaporation rate	No applicable data available.
Flammability (solid/gas)	No applicable data available.
Upper explosion limit	No applicable data available.
Lower explosion limit	No applicable data available
Vapor pressure	No applicable data available
Vapor density	No applicable data available.
Specific gravity (relative density)	No applicable data available.

# SAFETY DATA SHEET

## Menthol Sports Roll-on 1500mg CBD

Water solubility	No applicable data available.
Solubility(ies)	No applicable data available.
Partition coefficient: n-octanol/water	No applicable data available.
Auto-ignition temperature	No applicable data available..
Decomposition temperature	No applicable data available.C
Viscosity, kinematic	No applicable data available.
Viscosity, dynamic	No applicable data available.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	No applicable data available.
Chemical stability	Stable at normal temperatures and storage conditions.
Possibility of hazardous	Hazardous polymerization will not occur.
Conditions to avoid	Temperature > 129°C (>264°F)
Incompatible materials	Strong acids and oxidizing agents.
Hazardous decomposition products	No decomposition if stored normally.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### ZEMEA Propanediol

Further information No data is available on the product itself.

#### Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 12. ECOLOGICAL INFORMATION**

Additional ecological information

No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste disposal methods-  
Product

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations

Contaminated packaging

No applicable data available.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated in transportation by DOT/IMO/IATA  
Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

TSAC

On the inventory, or in compliance with the inventory

SARA 311/312 Hazard classification

No SARA Hazards

SARA 313 Regulated Chemical(s)

This material does not contain any chemical compounds with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

California Prop. 65

This product does not contain any substances requiring a warning under the Safe Drinking Water and Toxic Enforcement Act.

**SECTION 16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. This information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty of quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.