

CERTIFICATE OF ANALYSIS

ISO/IEC 19035:2024 ACCREDITATION #106804



Order #: 90810
 Order Name: Muscle and Joint Capsules
 Batch#: Lot #1782-2
 Received: 10/25/2024
 Completed: 10/25/2024

Stirling CBD
 2500 Regency Pkwy Suite 283,
 Cary, NC 27518
 800-201-2840

Sample



N/D D9-THC	6.076% Total CBD
32.6 mg Cannabinoids per capsule	26.1 mg CBD per capsule

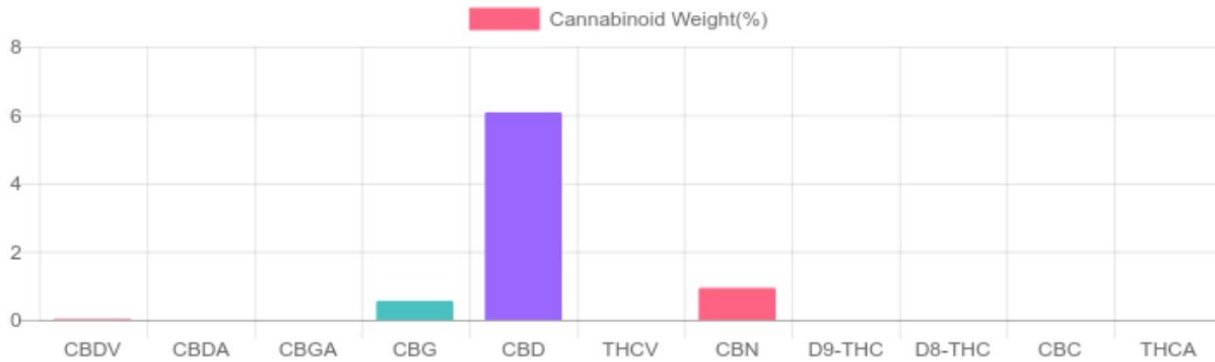
Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

UPLOADED: 10/28/2024 13:48:59

Cannabinoids	LOQ	weight(%)	mg/g	mg/capsule
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	6.076%	60.759	26.1
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	0.026%	0.255	0.1
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	0.937%	9.371	4.0
CBG	10 PPM	0.559%	5.589	2.4
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	N/D	N/D	N/D
TOTAL D9-THC		N/D	N/D	N/D
TOTAL CBD*		6.076%	60.759	26.1
TOTAL CANNABINOIDS		7.598%	75.974	32.6

1 capsule = 0.430 grams per capsule x Cannabinoid concentration



Reporting Limit 10 ppm
 *Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/25/2024 20:21:06

UPLOADED: 10/28/2024 11:39:19

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN 3.000	0.100	N/D	0.003	0.001
CHLORDANE		N/D	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001
COUMAPHOS 0.100		N/D	0.003	0.001
		N/D	0.003	0.001

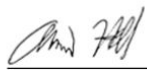
Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYFLUTHRIN	1.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PENTACHLORONITROBENZENE	0.200	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001
ACETAMIPRID	3.000	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001
BIFENAZATE	3.000	N/D	0.005	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001
BOSCALID	3.000	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.001	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005
CHLORMEQUAT	3.000	N/D	0.025	0.025
CHLORIDE		N/D	0.025	0.025
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	0.200	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001
DIMETHOATE	0.100	N/D	0.001	0.001
DIMETHOMORPH	3.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001
ETOXAZOLE	1.500	N/D	0.010	0.005
FENHEXAMID	3.000	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	2.000	N/D	0.025	0.010
FLUDIOXONIL	3.000	N/D	0.003	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.005	0.001
IMIDACLOPRID	3.000	N/D	0.005	0.001
KRESOXIM-METHYL	1.000	N/D	0.010	0.005
MALATHION	2.000	N/D	0.005	0.001
METALAXYL	3.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	0.100	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	3.000	N/D	0.005	0.001
NALED	0.500	N/D	0.005	0.001
OXAMYL	0.500	N/D	0.001	0.001
PACLOBUTRAZOL	0.100	N/D	0.005	0.001
PERMETHRINS	1.000	N/D	0.005	0.001
PHOSMET	0.200	N/D	0.005	0.001
PIPERONYL	3.000	N/D	0.001	0.001
BUTOXIDE		N/D	0.001	0.001
PRALLETHRIN	0.400	N/D	0.005	0.005
PROPICONAZOLE	1.000	N/D	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	1.000	N/D	0.005	0.005
PYRIDABEN	3.000	N/D	0.005	0.001
SPINETORAM	3.000	N/D	0.001	0.001
SPINOSAD	3.000	N/D	0.001	0.001
SPIROMESIFEN	3.000	N/D	0.005	0.001
SPIROTETRAMAT	3.000	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	0.001
TEBUCONAZOLE	1.000	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.001	0.001
THIAMETHOXAM	1.000	N/D	0.001	0.001
TRIFLOXYSTROBIN	3.000	N/D	0.001	0.001

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level


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 Ben Witten, MS, MT., Lab Director

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 2500 Regency Pkwy Suite 283,
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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405
Prepared: 10/25/2024 11:31:58
Uploaded: 10/28/2024 10:22:44

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
1,1-DICHLOROETHENE	8	N/D	0.63	0.63
1,2-DICHLOROETHANE	2	N/D	0.12	0.02
ACETONE	5,000	N/D	140	20
ACETONITRILE	410	N/D	25	1
BENZENE	1	N/D	1	0.5
BUTANE	5,000	N/D	50	10
CHLOROFORM	1	N/D	1	0.5
CIS 1,2-DICHLOROETHENE	5	N/D	0.73	0.18
ETHANOL	5,000	N/D	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ETHYLENE OXIDE	1	N/D	0	0
ISOPROPYL ALCOHOL	5,000	B/LOQ	140	20
METHANOL	3,000	N/D	100	20
METHYLENE CHLORIDE	125	N/D	0.15	0.15
N-HEPTANE	5,000	N/D	140	20
N-HEXANE	290	N/D	18	10
PENTANE	5,000	N/D	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	N/D	53	1
TRANS 1,2-DICHLOROETHENE	5	N/D	0.73	0.18
TRICHLOROETHENE	1	N/D	1	0.5
XYLENES	150	N/D	130	20

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX
 fa

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MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E. COLI*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
PATHOGENIC E. COLI	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
SALMONELLA*	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)
 * STEC and Salmonella run as Multiplex
 ** CFU/g Calculation based on MIP/Extract matrix
 *** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 10/28/2024 12:49:19

Analyte	Action Lvl (ppb)	Results (ppb)
AFLATOXIN B1	20	N/
AFLATOXIN B2	20	D
AFLATOXIN G1	20	N/
AFLATOXIN G2	20	D
OCHRATOXIN A	20	N/

LOQ is 1ppb, LOD is 1ppb

D
N/
D
N/
D

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 10/28/2024 17:26:35

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb

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Muscle and Joint Capsules 1200mg CBD

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

Ref. 20240107

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	CBD Muscle and Joint Capsules
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	CBD 30 mg CBG 10mg MSM 72.8 mg Chondroitin Sulfate 44.8 mg Glucosamine HCl 100 mg Cat's Claw 100 mg Boswellia Serrata 100 mg Curcumin 100 mg White Willow 100 mg Piperine 4.8 mg†
Product formula	12000mg 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 (CO ₂)
Unsuitable extinguishing Media	No applicable data available.
Specific hazards	Exposure to decomposition products may be hazardous to health.
Special protective	Standard approved fire fighting equipment. No additional breathing apparatus or protective required.
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 proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

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	Powder
Form	Capsules
Color	White/off-white
Odor	Slight
Odor threshold	No applicable data available.
pH	No applicable data available.
Melting point/ Freezing point	25 °C (77 °F) estimated
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° C (77 F)
Vapor density	No applicable data available.
Specific gravity (relative density)	No applicable data available.
Water solubility	Insoluble
Solubility(ies)	Soluble in organic solvents and oils

Exposure Guidelines

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pH	No applicable data available.
Melting point/ Freezing point	25 °C (77 °F) estimated
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° C (77 F)
Vapor density	No applicable data available.
Specific gravity (relative density)	No applicable data available.
Water solubility	Insoluble
Solubility(ies)	Soluble in organic solvents and oils

Partition coefficient: n-octanol/water	log Pow: -1.04 estimate information taken from reference works and literature.
Auto-ignition temperature	400°C estimate information taken from reference works and literature.
Decomposition temperature	>129°C
Viscosity, kinematic	No applicable data available.
Viscosity, dynamic	27-33 mPa.s at 20°C (68°F) estimated

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No applicable data available.
Chemical stability	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	No applicable data available.
Incompatible materials	No applicable data available.
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.