

Muscle & Joint Roll-on 5000mg (Lem/Lav/Menthol)

Sample ID: HR20230490383
Strain: Muscle & Joint
Matrix: Topical
Type: Body Oil
Sample Size: ; Batch:

Produced:
Collected: 04/20/2023
Received: 04/20/2023
Completed: 04/28/2023
Batch#: 12012022@1

Client
HHemp.Co
Lic. #
924 Chevy Way
Medford, OR 97504



Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	04/21/2023	Complete
Water Activity	04/24/2023	Pass - 0.80000 aw
Terpenes	04/21/2023	Complete
Residual Solvents	04/24/2023	Pass
Microbials	04/24/2023	Pass
Mycotoxins	04/24/2023	Pass
Pesticides	04/24/2023	Pass
Heavy Metals	04/24/2023	Pass
Foreign Matter	04/21/2023	Pass

Cannabinoids

Complete

ND	105.98 mg/g	5299.15 mg/unit
Total THC	Total CBD	Total Cannabinoids

Analyte	LOD	LOQ	Mass	Mass	Mass	Mass
	mg/g	mg/g	%	mg/g	mg/unit	mg/serving
THCa	0.03000	0.08000	ND	ND	ND	
Δ9-THC	0.02000	0.06000	ND	ND	ND	
Δ8-THC	0.02000	0.05000	ND	ND	ND	
THCV	0.02000	0.06000	ND	ND	ND	
CBDa	0.01000	0.04000	ND	ND	ND	
CBD	0.02000	0.06000	10.60	105.98	5299.15	
CBDV	0.02000	0.05000	ND	ND	ND	
CBN	0.02000	0.06000	ND	ND	ND	
CBGa	0.04000	0.11000	ND	ND	ND	
CBG	0.02000	0.05000	ND	ND	ND	
CBC	0.02000	0.05000	ND	ND	ND	
CBL	0.02000	0.07000	ND	ND	ND	
Total THC			ND	ND	ND	ND
Total CBD			10.60	105.98	5299.15	
Total			10.60	105.98	5299.15	0.00

1 Unit = ml, 50g, 1 mL = 1g.

Determination of Cannabinoids by HPLC, HL223

Total THC = Δ9-THCa * 0.877 + Δ9-THC

Total CBD = CBDa * 0.877 + CBD

ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory, HL105.10-01. Cannabinoid Testing: Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15724. Water activity testing: Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15717.



Ming

Ming Li - General Manager
04/28/2023

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ISO 17025 accredited by A2LA (Certificate No: 4074.01 & 4074.02). Sampling Procedure: SOP HL 110.2; Foreign Material: UV light/Microscope SOP HL 323, SOP HL 324; Water Activity: Water Activity Meter SOP HL 238; Moisture: Drying Oven SOP HL217.1; All LQC ran in accordance with 4 CCR sec. 15730. This product has been tested by Harrens Lab Inc. using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Harrens Lab Inc. makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Harrens Lab Inc.

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Sample Size: ; Batch:	Batch#: 12012022@1	Medford, OR 97504

Terpenes

Analyte	LOD	LOQ	Results	Results	
	mg/g	mg/g	mg/g	%	
δ-Limonene	0.08000	0.1000	9.79	0.979	
Linalool	0.08000	0.1000	5.58	0.558	
β-Pinene	0.08000	0.1000	1.35	0.135	
γ-Terpinene	0.08000	0.1000	1.03	0.103	
Isopulegol	0.08000	0.1000	0.60	0.060	
β-Caryophyllene	0.08000	0.1000	0.56	0.056	
α-Pinene	0.08000	0.1000	0.38	0.038	
β-Myrcene	0.08000	0.1000	0.30	0.030	
p-Cymene	0.08000	0.1000	0.26	0.026	
3-Carene	0.08000	0.1000	ND	ND	
α-Bisabolol	0.08000	0.1000	ND	ND	
α-Humulene	0.08000	0.1000	ND	ND	
α-Terpinene	0.08000	0.1000	ND	ND	
β-Ocimene	0.08000	0.1000	ND	ND	
Camphene	0.08000	0.1000	ND	ND	
Caryophyllene Oxide	0.08000	0.1000	ND	ND	
cis-Nerolidol	0.08000	0.1000	ND	ND	
Eucalyptol	0.08000	0.1000	ND	ND	
Geraniol	0.08000	0.1000	ND	ND	
Guaiol	0.08000	0.1000	ND	ND	
Terpinolene	0.08000	0.1000	ND	ND	
trans-Nerolidol	0.08000	0.1000	ND	ND	
Total			19.85	1.985	

Primary Aromas



Date Tested: 04/21/2023
 ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. HL105.10-01. SOP HL228. GC-FID



Ming Li

Ming Li - General Manager
04/28/2023

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Type: Body Oil	Completed: 04/28/2023	924 Chevy Way
Sample Size: ; Batch:	Batch#: 12012022@1	Medford, OR 97504

Pesticides

Pass

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.02	0.07	0.3	ND	Pass	Fludioxonil	0.02	0.07	30	ND	Pass
Acephate	0.02	0.07	5	ND	Pass	Hexythiazox	0.03	0.09	2	ND	Pass
Acequinocyl	0.03	0.08	4	ND	Pass	Imazalil	0.03	0.09	0.03	ND	Pass
Acetamiprid	0.02	0.07	0.5	ND	Pass	Imidacloprid	0.03	0.1	3	ND	Pass
Aldicarb	0.03	0.08	0.03	ND	Pass	Kresoxim Methyl	0.02	0.05	1	ND	Pass
Azoxystrobin	0.02	0.06	40	ND	Pass	Malathion	0.02	0.05	5	ND	Pass
Bifenazate	0.02	0.07	5	ND	Pass	Metalaxyl	0.03	0.1	15	ND	Pass
Bifenthrin	0.04	0.11	0.5	ND	Pass	Methiocarb	0.02	0.06	0.03	ND	Pass
Boscalid	0.02	0.07	10	ND	Pass	Methomyl	0.02	0.07	0.1	ND	Pass
Captan	0.06	0.19	5	ND	Pass	Mevinphos	0.03	0.08	0.03	ND	Pass
Carbaryl	0.03	0.08	0.5	ND	Pass	Myclobutanil	0.02	0.06	9	ND	Pass
Carbofuran	0.03	0.09	0.03	ND	Pass	Naled	0.01	0.03	0.5	ND	Pass
Chlorantraniliprole	0.02	0.06	40	ND	Pass	Oxamyl	0.03	0.09	0.2	ND	Pass
Chlordane	0.03	0.08	0.03	ND	Pass	Paclbutrazol	0.03	0.09	0.03	ND	Pass
Chlorfenapyr	0.02	0.07	0.03	ND	Pass	Parathion Methyl	0.02	0.07	0.03	ND	Pass
Chlorpyrifos	0.01	0.04	0.03	ND	Pass	Pentachloronitrobenzene	0.02	0.05	0.2	ND	Pass
Clofentezine	0.03	0.09	0.5	ND	Pass	Permethrin	0.02	0.07	20	ND	Pass
Coumaphos	0.02	0.07	0.03	ND	Pass	Phosmet	0.03	0.09	0.2	ND	Pass
Cyfluthrin	0.02	0.07	1	ND	Pass	Piperonyl Butoxide	0.03	0.08	8	ND	Pass
Cypermethrin	0.02	0.06	1	ND	Pass	Prallethrin	0.03	0.08	0.4	ND	Pass
Daminozide	0.02	0.07	0.03	ND	Pass	Propiconazole	0.03	0.09	20	ND	Pass
Diazinon	0.01	0.03	0.2	ND	Pass	Propoxur	0.03	0.08	0.03	ND	Pass
Dichlorvos	0.03	0.08	0.03	ND	Pass	Pyrethrins	0.01	0.04	1	ND	Pass
Dimethoate	0.02	0.05	0.03	ND	Pass	Pyridaben	0.03	0.09	3	ND	Pass
Dimethomorph	0.03	0.08	20	ND	Pass	Spinetoram	0.02	0.07	3	ND	Pass
Ethoprophos	0.03	0.08	0.03	ND	Pass	Spinosad	0.03	0.08	3	ND	Pass
Etofenprox	0.02	0.06	0.03	ND	Pass	Spiromesifen	0.03	0.09	12	ND	Pass
Etoazole	0.02	0.07	1.5	ND	Pass	Spirotetramat	0.02	0.07	13	ND	Pass
Fenhexamid	0.03	0.09	10	ND	Pass	Spiroxamine	0.03	0.08	0.03	ND	Pass
Fenoxycarb	0.02	0.07	0.03	ND	Pass	Tebuconazole	0.03	0.08	2	ND	Pass
Fenpyroximate	0.03	0.08	2	ND	Pass	Thiacloprid	0.02	0.06	0.03	ND	Pass
Fipronil	0.03	0.08	0.03	ND	Pass	Thiamethoxam	0.03	0.08	4.5	ND	Pass
Fonicamid	0.02	0.07	2	ND	Pass	Trifloxystrobin	0.03	0.1	30	ND	Pass

Date Tested: 04/24/2023

We analyze samples by AOAC Official Method 2007.01-Modified; ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. HL105.10-01. Tested by LC/MS/MS and GC/MS/MS, HL201.2. Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15719.



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Ming Li - General Manager
04/28/2023

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Residual Solvents

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.15	0.45	1	ND	Pass
Acetone	1.62	4.92	5000	8.8	Pass
Acetonitrile	2.14	6.5	410	ND	Pass
Benzene	0.17	0.51	1	ND	Pass
Butane	10.12	30.68	5000	ND	Pass
Chloroform	0.2	0.6	1	ND	Pass
Ethanol	2.73	8.27	5000	ND	Pass
Ethyl-Acetate	1.27	3.86	5000	ND	Pass
Ethyl-Ether	2.88	8.72	5000	ND	Pass
Ethylene Oxide	0.13	0.39	1	ND	Pass
Heptane	1.73	5.25	5000	11.3	Pass
Isopropanol	2.03	6.14	5000	ND	Pass
Methanol	2.26	6.86	3000	ND	Pass
Methylene-Chloride	0.31	0.94	1	ND	Pass
n-Hexane	3.46	10.5	290	ND	Pass
Pentane	7.88	23.88	5000	ND	Pass
Propane	7.47	22.62	5000	ND	Pass
Toluene	1.37	4.16	890	ND	Pass
Trichloroethene	0.14	0.44	1	ND	Pass
Xylenes	2.86	8.68	2170	ND	Pass

ISO 17025 Accredited Laboratory

Date Tested: 04/24/2023
ND = Not Detected; SOP HL231. Headspace GC-FID. Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15718.



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Type: Body Oil	Completed: 04/28/2023	924 Chevy Way
Sample Size: ; Batch:	Batch#: 12012022@1	Medford, OR 97504

Microbials

Pass

Analyte	Results	Status
Aerobic Plate Count	NR	NT
Aspergillus flavus	NR	NT
Aspergillus fumigatus	NR	NT
Aspergillus niger	NR	NT
Aspergillus terreus	NR	NT
Shiga Toxin-producing E. coli	Not Detected in 1g	Pass
Salmonella SPP	Not Detected in 1g	Pass
Yeast & Mold	NR	NT

Date Tested: 04/24/2023

NR = Not Reported; Aerobic Bacteria refers to Aerobic Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 3. E.coli refers to E.coli Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 4. Coliforms refers to Coliform Plate Count, we analyze by method FDA BAM Jan 2001, Chapter 4. Salmonella analysis method by Compact Dry SL, Hardy Diagnostics. Visual Mold inspection by UV light. 1= Mold Present, 0=Mold Not Present. Yeast and Mold Plate count method by AOAC no. 100401 or FDA BAM Jan 2001, Chapter 18. HL105.10-01. Salmonella and STEC: SOP HL 316. Aspergillus sp.: SOP HL311.2 (modified) & SOP HL 317. Microbial Testing: Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15720 and §15722.

Mycotoxins

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	1.1	3.4		ND	Tested
Aflatoxin B2	1.3	4		ND	Tested
Aflatoxin G1	2.8	8.4		ND	Tested
Aflatoxin G2	1.4	4.2		ND	Tested
Total Aflatoxins	6.6	20	20	ND	Pass
Ochratoxin A	2.8	8.4	20	ND	Pass

Date Tested: 04/24/2023

SOP HL 240. Total Aflatoxins = Aflatoxin B1 + Aflatoxin B2 + Aflatoxin G1 + Aflatoxin G2. Each aflatoxin is tested individually. HL241. Tested by HPLC-FID, HL241. Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15721.

Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.059	0.179	1.5	ND	Pass
Cadmium	0.005	0.014	0.5	ND	Pass
Lead	0.055	0.168	0.5	ND	Pass
Mercury	0.005	0.017	3	ND	Pass

Date Tested: 04/24/2023

SOP HL 237. Tested by Atomic Fluorescence Spectrometry, HL237. Pass/Fail decision determined by Department of Cannabis Control CCR title 4 Division 19 §15723.



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04/28/2023

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