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400mg Cooling Menthol Salve (CM4010080 exp 03/23)

Order ID#: 20201009-291 **Lab Code#:** LC-20201009-687
Product Type: Personal care **Sample date:** 8-Oct-2020
Lot Number: CM4010080 exp 03/23 **Sample received:** 12-Oct-2020
Batch Number: S-400mg-CM-7.18.20 **Completed:** 2-Nov-2020
Unit Amount (g): 57 **Report expires:** 2-Nov-2021

SAFETY ANALYSIS

Microbials PASS	Mycotoxins PASS	Pesticides PASS	Metals PASS	Solvents PASS
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CANNABINOID PROFILE

Total CBD - mg/unit - 364

0.638% Total CBD **PASS** Total THC

Total Potency - mg/unit - 415

TOP TERPENES PROFILE (ppm)

EUCALYPTOL 170°C	ALPHA-PINENE 150°C	LIMONENE 178°C	DELTA-3-CARENE 171°C	p-CYMENE 177°C
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Terpene	Result (ppm)	Result (%)
<i>Isopulegol</i>	2847.972	0.28480
<i>Eucalyptol</i>	1424.530	0.14245
<i>α-Pinene</i>	836.714	0.08367
<i>δ-Limonene</i>	685.602	0.06856
<i>δ-3-Carene</i>	305.802	0.03058
<i>p-Cymene</i>	116.784	0.01168

FILTH AND FOREIGN MATERIAL

PASS

Analysis Batch: WO-20101322
Analysis Date: 21-Oct-2020
Instrument: Microscope I-39

WATER DETERMINATIONS

	Water activity	% Moisture
Analysis Batch:	WO-20101321	
Analysis Date:	21-Oct-2020	21-Oct-2020
Result:	0.6275	14.96%
Instrument:	I40	E15

Comments:

None.

Authorization



YoungChul Park, Ph.D., Laboratory Director
 Approval Date: 2-Nov-2020

Test results are based solely upon the test article submitted to Americanna Laboratories, LLC in the condition it was received. Americanna Laboratories, LLC warrants that all analytical work was conducted in a professional manner in accordance with the requirements of ISO/IEC 17025:2017 (#102139), such as comparison to Certified Reference Materials and NIST traceable Reference Standards. This report shall not be reproduced, except in its entirety, without the written approval of Americanna Laboratories, LLC. Test results are confidential unless explicitly waived. Void after 1 year from test end date.

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CANNABINOIDS

Analyte	%	mg/g	mg/unit	LOD (%)
THCA-A	0.00247	0.02471	1.408	0.0006
Δ9-THC	0.0274	0.2738	15.61	0.0006
CBDA	ND	ND	ND	0.0006
CBD	0.638	6.384	363.9	0.0006
CBN	ND	ND	ND	0.0006
CBDV	0.00303	0.03026	1.725	0.0006
Δ8-THC	0.00260	0.02597	1.481	0.0006
THCV	ND	ND	ND	0.0006
CBG	0.0300	0.3001	17.11	0.0006
CBGA	ND	ND	ND	0.0006
CBC	0.0242	0.2422	13.80	0.0006

Total THC^a
0.03% **PASS**

Total CBD^b 6.4 mg/g
364 mg/unit

TOTAL^c 7.3 mg/g
415 mg/unit

Analysis Batch: WO-20101301A
Analysis Date: 27-October-2020
Test Method: SOP 6.6 (HPLC)
Instrument: Agilent HPLC Instrument 33

^a Total THC is calculated as THC + (THCA × 0.877).

^b Total CBD is calculated as CBD + (CBDA × 0.877).

^c Total cannabinoids is the absolute sum of all cannabinoids above the level of detection.

TERPENES

Analyte	Result (µg/g)	Result (%)
α-Bisabolol	4.452	0.00045
α-Humulene	5.642	0.00056
α-Pinene	836.7	0.08367
α-Terpinene	3.964	0.00040
β-Caryophyllene	14.00	0.00140
β-Myrcene	5.744	0.00057
β-Ocimene 1	ND	ND
β-Ocimene 2	ND	ND
β-Pinene	2.748	0.00027
Camphene	66.33	0.00663
Caryophyllene-oxide	ND	ND
δ-3-Carene	305.8	0.03058

LOD = 0.0002%

Analyte	Result (µg/g)	Result (%)
δ-Limonene	685.6	0.06856
Eucalyptol	1425	0.14245
γ-Terpinene	26.49	0.00265
Geraniol	ND	ND
Guaiol	5.504	0.00055
Isopulegol	2848	0.28480
Linalool	9.230	0.00092
Nerolidol 1	ND	ND
Nerolidol 2	ND	ND
p-Cymene	116.8	0.01168
Terpinolene	3.460	0.00035

Total Terpenes: 6365.0 0.63650
Total (µg/unit): 362803.2

Analysis Batch: WO-20101311
Analysis Date: Thursday, October 15, 2020

Test Method: SOP 6.9
Instrument: Agilent GC-FID/MS, Instrument 36

Comments:

None.

Authorization



YoungChul Park, Ph.D., Laboratory Director
Approval Date: 2-Nov-2020

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PESTICIDES

Analyte	Action Level	Result (µg/g)
Abamectin	0.30	ND - Pass
Acephate	3.00	ND - Pass
Acequinocyl	2.00	ND - Pass
Acetamiprid	3.00	ND - Pass
Aldicarb	0.10	ND - Pass
Azoxystrobin	3.00	ND - Pass
Bifenazate	3.00	ND - Pass
Carbaryl	0.50	ND - Pass
Carbofuran	0.10	ND - Pass
Chlorantraniliprole	3.00	ND - Pass
Chlorfenapyr	0.05	ND - Pass
Chlorpyrifos	0.10	ND - Pass
Coumaphos	0.10	0.02 - Pass
Daminozide	0.10	ND - Pass
Diazinon	0.20	ND - Pass
Dichlorvos	0.10	ND - Pass
Dimethoate	0.10	ND - Pass
Dimethomorph (I/II)	3.00	ND - Pass
Ethoprophos	0.10	ND - Pass
Etofenprox	0.10	ND - Pass
Etoxazole	1.50	ND - Pass
Fenhexamid	3.00	ND - Pass
Fenoxycarb	0.10	ND - Pass
Fenpyroximate	2.00	ND - Pass
Fipronil	0.10	ND - Pass
Flonicamid	2.00	ND - Pass
Fludioxonil	3.00	ND - Pass

Analyte	Action Level	Result (µg/g)
Hexythiazox	2.00	ND - Pass
Imazalil	0.10	ND - Pass
Imidacloprid	1.00	ND - Pass
Kresoxim methyl	1.00	ND - Pass
Malathion	3.00	ND - Pass
Metalaxyl	0.10	ND - Pass
Methiocarb	0.10	ND - Pass
Methomyl	0.10	ND - Pass
Mevinphos (I/II)	0.10	ND - Pass
Myclobutanil	3.00	ND - Pass
Naled	0.50	ND - Pass
Oxamyl	1.50	ND - Pass
Phosmet	0.20	ND - Pass
Piperonyl butoxide	3.00	ND - Pass
Prallethrin	0.40	ND - Pass
Propiconazole	1.00	ND - Pass
Propoxur	2.10	ND - Pass
Pyrethrins	1.00	ND - Pass
Pyridaben	3.00	ND - Pass
Spinetoram (J/L)	3.00	ND - Pass
Spinosad A + D	3.00	ND - Pass
Spiromesifen	3.00	ND - Pass
Spirotetramat	3.00	ND - Pass
Spiroxamine (I/II)	0.10	ND - Pass
Tebuconazole	1.00	ND - Pass
Thiacloprid	0.10	ND - Pass
Thiamethoxam	1.00	ND - Pass
Trifloxystrobin	3.00	ND - Pass

Analysis Batch: WO-20101309
Analysis Date: Wednesday, October 14, 2020

Test Method: SOP 6.7
Instrument: Agilent LC-MS/MS, Instrument 32

MYCOTOXINS

Analyte	Report	Result	Action Limit	LOD	Unit
Aflatoxin, Total	Pass	ND	0.020	0.005	µg/g
Ochratoxin A	Pass	ND	0.020	0.005	µg/g

* Total Aflatoxin includes B1, B2, G1 and G2.

Analysis Batch: WO-20101309
Analysis Date: Wednesday, October 14, 2020

Test Method: SOP 6.7
Instrument: Agilent LC-MS/MS, Instrument 32

Comments:

None.

Authorization



YoungChul Park, Ph.D., Laboratory Director
 Approval Date: 2-Nov-2020

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RESIDUAL SOLVENTS

Analyte	Action Level	Result (µg/g)
1,2-Dichloroethane	5	ND - Pass
Acetone	5000	ND - Pass
Acetonitrile	410	ND - Pass
Benzene	2	ND - Pass
Butane	2000	ND - Pass
Chloroform	60	ND - Pass
Ethanol	5000	ND - Pass
Ethyl Acetate	5000	ND - Pass
Ethyl Ether	5000	ND - Pass
Ethylene Oxide	5	ND - Pass

Analyte	Action Level	Result (µg/g)
Heptane	5000	ND - Pass
Hexane	290	ND - Pass
Isopropyl Alcohol	500	ND - Pass
Methanol	3000	ND - Pass
Methylene Chloride	600	ND - Pass
Pentane	5000	ND - Pass
Propane	2100	ND - Pass
Toluene	890	ND - Pass
Trichloroethylene	80	ND - Pass
Xylenes, Total	2170	ND - Pass

Analysis Batch: WO-20101307
Analysis Date: Thursday, October 15, 2020

Test Method: SOP 6.8
Instrument: Agilent GC-FID/MS, Instrument 36

MICROBIAL CONTAMINANTS

Test	Report	Result	Specification
Shiga toxin-producing E.coli (STEC)	Pass	Absent	Presence/Absence in 1 g
Salmonella	Pass	Absent	Presence/Absence in 1 g
Listeria	Pass	Absent	Presence/Absence in 1 g

Analysis Batch: WO-20101213
Analysis Date: Tuesday, October 13, 2020

Test Method: SOP 6.11 (qPCR)
Instrument: Agilent AriaMX, Instrument 38

HEAVY METALS

Element	Report	Result	Action Limit	LOD	Unit
Lead	Pass	ND	0.50	0.050	µg/g
Arsenic	Pass	ND	1.5	0.050	µg/g
Mercury	Pass	ND	3.0	0.005	µg/g
Cadmium	Pass	ND	0.50	0.050	µg/g

Analysis Batch: WO-20101302
Analysis Date: Tuesday, October 20, 2020

Test Method: SOP 6.10
Instrument: Agilent ICP/MS, Instrument 37

Comments:

None.

Authorization



YoungChul Park, Ph.D., Laboratory Director
 Approval Date: 2-Nov-2020

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