

Order #: 50343 Order Name: OH Topical 333

mg Roll-On Batch#: OH1333104 Received: 03/06/2020 Completed: 03/17/2020 Arise Bioscience Inc. 4855 Technology Way Suite 500 Boca Raton Florida, 33431 (866) 407-1164



Sample



0.044% D9-THC 1.048% Total CBD

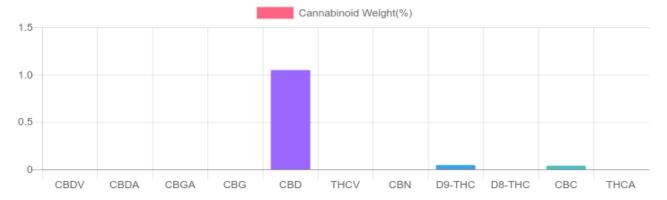
339.2 mg Cannabinoids per stick 314.5 mg CBD per stick

1 stick = 30 ml per stick x density (1) x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA GSL SOP 400

Cannabinoids	LOQ	weight(%)	mg/g	mg/stick
D9-THC	10 PPM	0.044%	0.436	13.1
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	1.048%	10.484	314.5
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
CBC	10 PPM	0.039%	0.388	11.6
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	N/D	N/D	N/D
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		0.044%	0.044%	13.1
TOTAL CBD*		1.048%	10.484	314.5
TOTAL CANNABINOIDS		1.131%	11.308	339.2



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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TERPENES: TOTAL (0.447%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

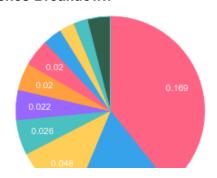
Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.0067%	0.0063%
ALPHA-PINENE	0.048%	0.0067%	0.0063%
ALPHA-TERPINENE	0.009%	0.0067%	0.0063%
BETA-MYRCENE	0.026%	0.0067%	0.0063%
BETA-PINENE	0.020%	0.0067%	0.0063%
CAMPHENE	0.008%	0.0067%	0.0063%
CARYOPHYLLENE	0.022%	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.020%	0.0067%	0.0063%
EUCALYPTOL	0.169%	0.0067%	0.0063%
GAMMATERPINENE	0.014%	0.0067%	0.0016%
GUAIOL	B/LOQ	0.0067%	0.0063%
HUMULENE	B/LOQ	0.0067%	0.0063%
LIMONENE	0.073%	0.0067%	0.0063%
LINALOOL	0.010%	0.0067%	0.0063%

Prepared: 03/06/2020 17:49:24

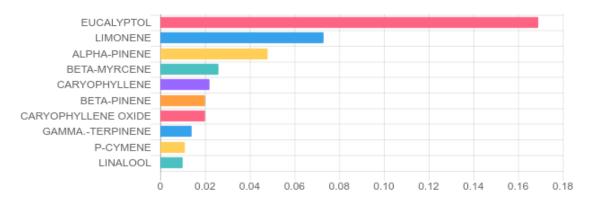
GSL SOP 404

Terpene	Results (%)	LOQ (%)	LOD (%)
P-CYMENE	0.011%	0.0067%	0.0063%
TERPINOI ENE	B/I OO	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

TRANS-BETA-OCIMENE, CIS-BETA-OCIMENE, ISOPULEGOL, GERANIOL, CIS-NEROLIDOL, TRANS-NEROLIDOL, ALPHA-BISABOLOL

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PESTICIDE ANALYSIS:

GSL SOP 401 PREPARED: 03/06/2020 17:27:38

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	3.000	N/D	0.003	0.001
CHLORDANE	0.100	N/D	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001
COUMAPHOS	0.100	N/D	0.003	0.001
CYFLUTHRIN	1.000	N/D	0.003	0.001

Pesticide	Action Leve	l Results	LOQ	LOD
resticide	(ppm)	(ppm)	(ppm)	(ppm)
CYPERMETHRIN	1.000	N/D	0.003	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLUDIOXONIL	3.000	N/D	0.003	0.001
PENTACHLORONITROBENZEN	E 0.200	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.300	N/D	0.005	0.001	IMIDACLOPRID	3.000	N/D	0.005	0.001
ACEPHATE	3.000	N/D	0.001	0.001	KRESOXIM-METHYL	1.000	N/D	0.010	0.005
ACEQUINOCYL	2.000	N/D	0.001	0.001	MALATHION	2.000	N/D	0.005	0.001
ACETAMIPRID	3.000	N/D	0.005	0.001	METALAXYL	3.000	N/D	0.001	0.001
ALDICARB	0.100	N/D	0.005	0.001	METHIOCARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	3.000	N/D	0.001	0.001	METHOMYL	0.100	N/D	0.001	0.001
BIFENAZATE	3.000	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BIFENTHRIN	0.500	N/D	0.005	0.001	MYCLOBUTANIL	3.000	N/D	0.005	0.001
BOSCALID	3.000	N/D	0.005	0.001	NALED	0.500	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	OXAMYL	0.500	N/D	0.001	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORANTRANILIPROLE	3.000	N/D	0.005	0.005	PERMETHRINS	1.000	N/D	0.005	0.001
CHLORMEQUAT	0.000	NID	0.005	0.005	PHOSMET	0.200	N/D	0.005	0.001
CHLORIDE	3.000	N/D	0.025	0.025	PIPERONYL			0.001	
CHLORPYRIFOS	0.100	N/D	0.001	0.001	BUTOXIDE	3.000	N/D		0.001
CLOFENTEZINE	0.500	N/D	0.001	0.001	PRALLETHRIN	0.400	N/D	0.005	0.005
DAMINOZIDE	0.100	N/D	0.005	0.001	PROPICONAZOLE	1.000	N/D	0.010	0.005
DIAZINON	0.200	N/D	0.001	0.001	PROPOXUR	0.100	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001	PYRETHRINS	1.000	N/D	0.005	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	(PYRETHRIN I)	1.000	N/D	0.005	0.005
DIMETHOMORPH	3.000	N/D	0.005	0.001	PYRIDABEN	3.000	N/D	0.005	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001	SPINETORAM	3.000	N/D	0.001	0.001
ETOFENPROX	0.100	N/D	0.001	0.001	SPINOSAD	0.000	N/D	0.004	0.004
ETOXAZOLE	1.500	N/D	0.010	0.005	(SPINOSYN A)	3.000	N/D	0.001	0.001
FENHEXAMID	3.000	N/D	0.005	0.001	SPINOSAD	0.000	N/D	0.004	0.004
FENOXYCARB	0.100	N/D	0.005	0.001	(SPINOSYN D)	3.000	N/D	0.001	0.001
FENPYROXIMATE	2.000	N/D	0.001	0.001	SPIROMESIFEN	3.000	N/D	0.005	0.001
FLONICAMID	2.000	N/D	0.025	0.010	SPIROTETRAMAT	3.000	N/D	0.001	0.001
HEXYTHIAZOX	2.000	N/D	0.005	0.001	SPIROXAMINE	0.100	N/D	0.001	0.001
IMAZALIL	0.100	N/D	0.005	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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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
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
DICHLOROETHANE	1	N/D	1	0.5
DICHLOROMETHANE	1	N/D	1	0.5
THANOL	5,000	144	140	20
THYL ACETATE	5,000	N/D	140	20
THYL ETHER	5,000	N/D	140	20
SOPROPYL ALCOHOL	5,000	B/LOQ	140	20
METHANOL	3,000	129	100	20
I-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
OLUENE	890	N/D	53	1
RICHLOROETHENE	1	N/D	0	0
YLENES	2,170	N/D	130	20

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Microbial Analysis:

Microbial Analysis GSL SOP 406

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PCR - Agilent AriaMX Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
PATHOGENIC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS

[†] USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

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^{*} STEC and Salmonella run as Multiplex

^{**} CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix



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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

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

LOQ is 4ppb, LOD is 1ppb

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

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Moisture %

87.8%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

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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

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

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Water

0.97

Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

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Pass: No Foreign Materials Detected

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