

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 64266
 Order Name: 250mg Muscle & Joint Roll-On
 Batch#: 201005
 Received: 10/15/2020
 Completed: 10/19/2020

ReThink CBD
 11231 NW 20th Street Unit 140-195
 Miami Florida, 33172
 (888) 746-8223



Sample



N/D
D9-THC

0.333%
Total CBD

423.5 mg
Cannabinoids per unit

423.5 mg
CBD per unit

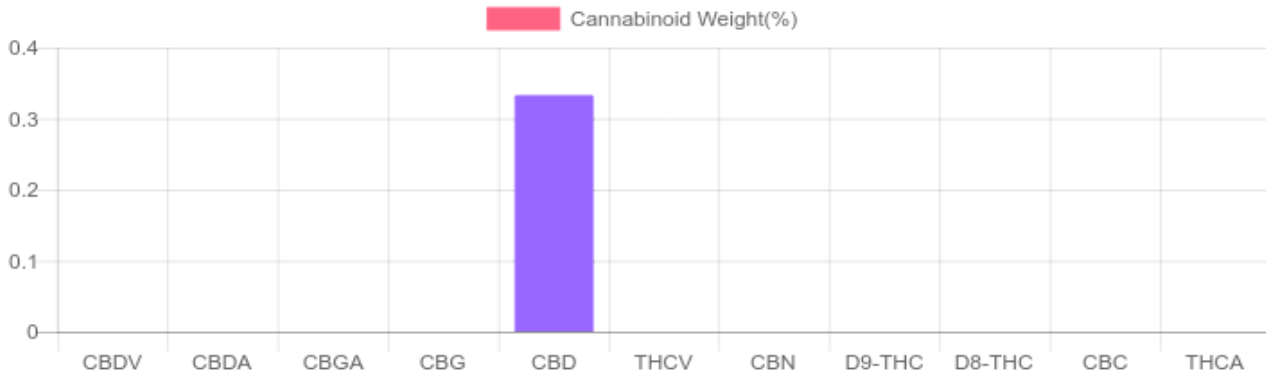
Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

UPLOADED: 10/16/2020 17:03:04

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	0.333%	3.335	423.5
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
CBC	10 PPM	N/D	N/D	N/D
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		N/D	N/D	N/D
TOTAL CBD*		0.333%	3.335	423.5
TOTAL CANNABINOIDS		0.333%	3.335	423.5

1 unit = 127 grams per unit 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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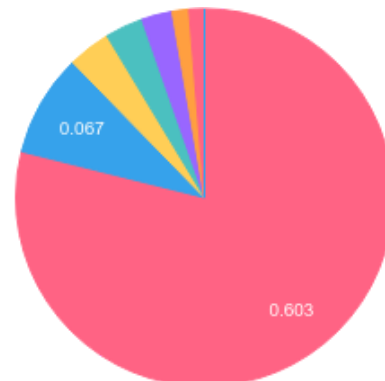
TERPENES: TOTAL (0.775%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

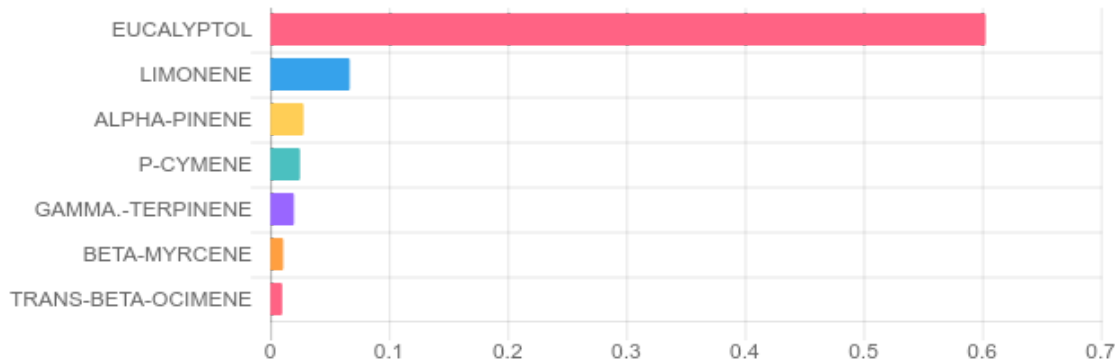
GSL SOP 404
 Prepared: 10/15/2020 22:38:41
 Uploaded: 10/16/2020 12:40:13

Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-PINENE	0.028%	0.0067%	0.0063%
ALPHA-TERPINENE	B/LOQ	0.0067%	0.0063%
BETA-MYRCENE	0.011%	0.0067%	0.0063%
BETA-PINENE	B/LOQ	0.0067%	0.0063%
CARYOPHYLLENE	B/LOQ	0.0067%	0.0063%
EUCALYPTOL	0.603%	0.0067%	0.0063%
GAMMA.-TERPINENE	0.020%	0.0067%	0.0016%
LIMONENE	0.067%	0.0067%	0.0063%
P-CYMENE	0.025%	0.0067%	0.0063%
TRANS-BETA-OCIMENE	0.010%	0.0067%	0.0031%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

CAMPHENE, 3-CARENE, CIS-BETA-OCIMENE, TERPINOLENE, LINALOOL, ISOPULEGOL, GERANIOL, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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PESTICIDE ANALYSIS:

GSL SOP 401


PREPARED: 10/15/2020 21:49:00


UPLOADED: 10/19/2020 13:01:26

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	0.100	N/D	0.005	0.001	IMIDACLOPRID	5.000	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001	KRESOXIM-METHYL	0.100	N/D	0.010	0.005
ACEQUINOCYL	0.100	N/D	0.001	0.001	MALATHION	0.500	N/D	0.005	0.001
ACETAMIPRID	0.100	N/D	0.005	0.001	METALAXYL	2.000	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	0.100	N/D	0.001	0.001	METHOMYL	1.000	N/D	0.001	0.001
BIFENAZATE	0.100	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001	MYCLOBUTANIL	0.100	N/D	0.005	0.001
BOSCALID	0.100	N/D	0.005	0.001	NALED	0.100	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	10.000	N/D	0.005	0.005	PERMETHRINS	0.500	N/D	0.005	0.001
CHLORPYRIFOS	0.100	N/D	0.001	0.001	PHOSMET	0.100	N/D	0.005	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001	PIPERONYL	3.000	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001	BUTOXIDE				
DIAZINON	0.100	N/D	0.001	0.001	PRALLETHRIN	0.100	N/D	0.005	0.005
DICHLORVOS	0.100	N/D	0.005	0.001	PROPICONAZOLE	0.100	N/D	0.010	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	PROPOXUR	0.100	N/D	0.001	0.001
DIMETHOMORPH	2.000	N/D	0.005	0.001	PYRETHRINS	0.500	N/D	0.005	0.005
ETHOPROPHOS	0.100	N/D	0.001	0.001	(PYRETHRIN I)				
ETOFENPROX	0.100	N/D	0.001	0.001	PYRIDABEN	0.100	N/D	0.005	0.001
ETOXAZOLE	0.100	N/D	0.010	0.005	SPINETORAM	0.100	N/D	0.001	0.001
FENHEXAMID	0.100	N/D	0.005	0.001	SPINOSAD	0.100	N/D	0.001	0.001
FENOXYCARB	0.100	N/D	0.005	0.001	SPIROMESIFEN	0.100	N/D	0.005	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001	SPIROTETRAMAT	0.100	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001	SPIROXAMINE	0.100	N/D	0.001	0.001
FLONICAMID	0.100	N/D	0.025	0.010	TEBUCONAZOLE	0.100	N/D	0.005	0.001
FLUDIOXONIL	0.100	N/D	0.003	0.001	THIACLOPRID	0.100	N/D	0.001	0.001
HEXYTHIAZOX	0.100	N/D	0.005	0.001	THIAMETHOXAM	5.000	N/D	0.001	0.001
IMAZALIL	0.100	N/D	0.005	0.001	TRIFLOXYSTROBIN	0.100	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

Prepared: 10/15/2020 22:15:03

Uploaded: 10/16/2020 14:07:37

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	N/D	140	20
METHANOL	3,000	197	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

Uploaded: 10/16/2020 18:22:22

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

Test	SOP	Test Method	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
ASPERGILLUS FUMIGATUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS TERREUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS FLAVUS***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
ASPERGILLUS NIGER***	406.01	USP 61/62†	ARIAMX PCR	1 CFU/G**	DETECT/NOT DETECTED	NOT DETECTED	PASS
STEC 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
TOTAL YEAST AND MOLD	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	10,000 CFU/G	NOT DETECTED	PASS
AEROBIC BACTERIA COUNT	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	100,000 CFU/G	NOT DETECTED	PASS
ENTEROBACTERIACEAE	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	1,000 CFU/G	NOT DETECTED	PASS
COLIFORM	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	1,000 CFU/G	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: 10/19/2020 13:01:25

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 1ppb, LOD is 1ppb

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 10/15/2020 22:48:12

Moisture %

95.4%

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 10/16/2020 14:56:16

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

Uploaded: 10/15/2020 22:48:12

Water

0.97

Filth and Foreign Materials Analysis:

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

Uploaded: 10/15/2020 22:44:08

Pass: No Foreign Materials Detected

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