

CERTIFICATE OF ANALYSIS



Order #: 33762
 Order Name: ORIGINAL HEMP
 RELIEF CAPSULE
 Batch#: 44683
 Received: 07/23/2019
 Completed: 07/30/2019

Arise Bioscience
 4855 Technology Way, Suite 500
 Boca Raton FL, 33431
 (866) 407-1164



Sample



0.044%
D9-THC

1.511%
Total CBD

13.1 mg
Cannabinoids per
pill

11.5 mg
CBD per
pill

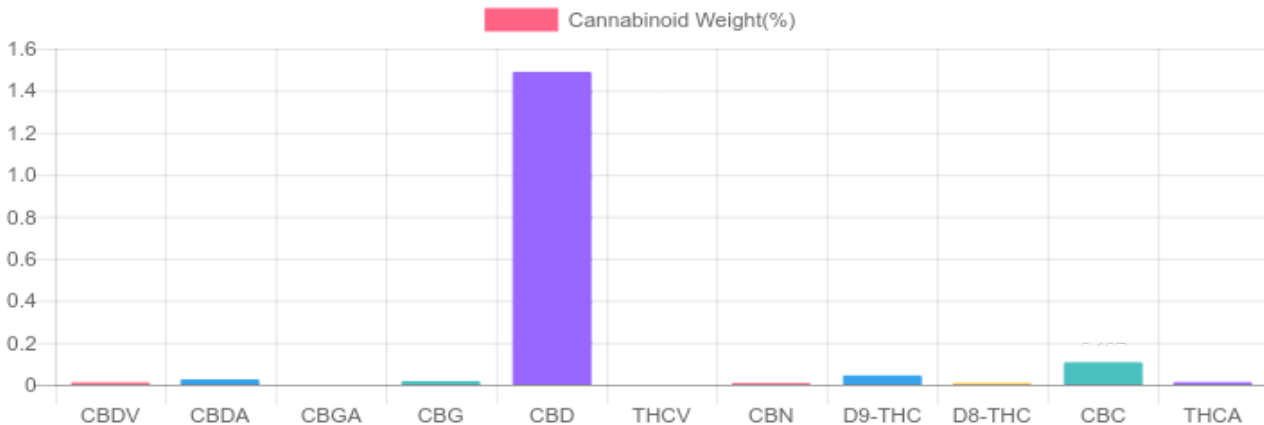
1 pill = .760 grams per pill x Cannabinoid
concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

UPLOADED: 07/24/2019 18:56:08

Cannabinoids	LOQ	weight(%)	mg/g	mg/pill
D9-THC	10 PPM	0.044%	0.439	0.3
THCA	10 PPM	0.012%	0.116	0.1
CBD	10 PPM	1.489%	14.887	11.3
CBDA	20 PPM	0.025%	0.254	0.2
CBDV	20 PPM	0.011%	0.114	0.1
CBC	10 PPM	0.107%	1.066	0.8
CBN	10 PPM	0.007%	0.072	0.1
CBG	10 PPM	0.017%	0.174	0.1
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	0.010%	0.097	0.1
THCV	10 PPM	N/D	N/D	N/D
TOTAL D9-THC		0.044%	0.439	0.3
TOTAL CBD*		1.511%	15.110	11.5
TOTAL CANNABINOIDS		1.722%	17.219	13.1



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification



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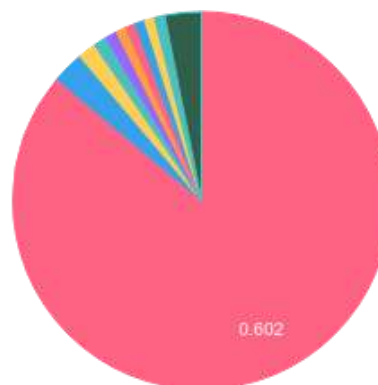
TERPENES: TOTAL (0.699%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

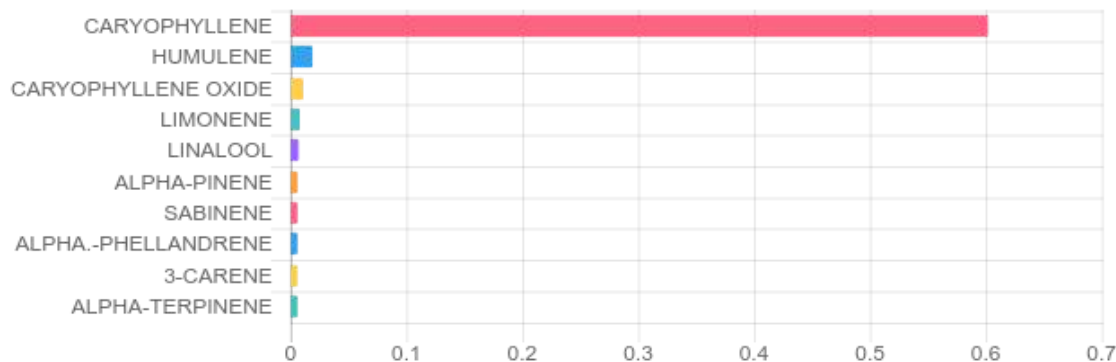
GSL SOP 404
 Prepared: 07/24/2019 23:06:31
 Uploaded: 07/26/2019 17:42:44

Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.0067%	0.0063%
ALPHA-PINENE	B/LOQ	0.0067%	0.0063%
ALPHA-TERPINENE	B/LOQ	0.0067%	0.0063%
ALPHA.-PHELLANDRENE	B/LOQ	0.0067%	0.0063%
BETA-MYRCENE	B/LOQ	0.0067%	0.0063%
CARYOPHYLLENE	0.602%	0.0067%	0.0063%
CARYOPHYLLENE OXIDE	0.011%	0.0067%	0.0063%
GAMMA.-TERPINENE	B/LOQ	0.0067%	0.0016%
GUAJOL	B/LOQ	0.0067%	0.0063%
HUMULENE	0.019%	0.0067%	0.0063%
LIMONENE	0.008%	0.0067%	0.0063%
LINALOOL	0.007%	0.0067%	0.0063%
SABINENE	B/LOQ	0.0067%	0.0063%
TERPINEOL (MIX OF ISOMERS)	B/LOQ	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

CAMPHENE, BETA-PINENE, TRANS-BETA-OCIMENE, CIS-BETA-OCIMENE, EUCALYPTOL, TERPINOLENE, SABINENE HYDRATE, FENCHONE, FENCHOL, ISOPULEGOL, CAMPHOR, ISOBORNEOL, MENTHOL, BORNEOL, GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, VALENCENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, CEDROL, ALPHA-BISABOLOL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 07/24/2019 22:30:03

UPLOADED: 07/25/2019 22:43:52

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	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

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CYLFLUTHRIN	2.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PARATHION-METHYL	0.100	N/D	0.003	0.001
PENTACHLORONITROBENZENE	0.100	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001
ACETAMIPRID	0.100	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001
BIFENAZATE	0.100	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001
BOSCALID	0.100	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	10.000	N/D	0.005	0.005
CHLORPYRIFOS	0.100	N/D	0.001	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZANON	0.100	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	2.000	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	0.100	N/D	0.010	0.005
FENHEXAMID	0.100	N/D	0.005	0.001
FENOXYCARB	0.100	N/D	0.005	0.001
FENPYROXIMATE	0.100	N/D	0.001	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	0.100	N/D	0.025	0.010
FLUDIOXONIL	0.100	N/D	0.003	0.001
HEXYTHIAZOX	0.100	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	5.000	N/D	0.005	0.001
KRESOXIM-METHYL	0.100	N/D	0.010	0.005
MALATHION	0.500	N/D	0.005	0.001
METALAXYL	2.000	N/D	0.001	0.001
METHIOCARB	0.100	N/D	0.005	0.001
METHOMYL	1.000	N/D	0.001	0.001
MEVINPHOS	0.100	N/D	0.001	0.001
MYCLOBUTANIL	0.100	N/D	0.005	0.001
NALED	0.100	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	0.500	N/D	0.005	0.001
PHOSMET	0.100	N/D	0.005	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.001	0.001
PRALLETHRIN	0.100	N/D	0.005	0.005
PROPICONAZOLE	0.100	0.096	0.010	0.005
PROPOXUR	0.100	N/D	0.001	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.005	0.005
PYRIDABEN	0.100	N/D	0.005	0.001
SPINETORAM	0.100	N/D	0.001	0.001
SPINOSAD	0.100	N/D	0.001	0.001
SPIROMESIFEN	0.100	N/D	0.005	0.001
SPIROTETRAMAT	0.100	N/D	0.001	0.001
SPIROXAMINE	0.100	N/D	0.001	0.001
TEBUCONAZOLE	0.100	N/D	0.005	0.001
THIACLOPRID	0.100	N/D	0.001	0.001
THIAMETHOXAM	5.000	N/D	0.001	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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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 07/25/2019 22:43:52

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

Microbial Analysis:

PCR - Agilent AriaMX

Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
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
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	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

*** Flavis = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 07/24/2019 23:14:52

Water

0.48

Filth and Foreign Materials Analysis:

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

Uploaded: 07/24/2019 23:23:06

Pass: No Foreign Materials Detected



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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 07/24/2019 23:07:00


Uploaded: 07/26/2019 17:21:55

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
ETHANOL	5,000	N/D	140	20
ETHYL ACETATE	5,000	B/LOQ	140	20
ETHYL ETHER	5,000	N/D	140	20
ISOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	B/LOQ	100	20
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
TRICHLOROETHENE	0	N/D	0	0
XYLENES	2,170	N/D	130	20



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