

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 48719
 Order Name:
 500.SALVE.x2020-1.a
 Batch#: 5102500-0182020-1
 Received: 02/12/2020
 Completed: 02/14/2020



Sample



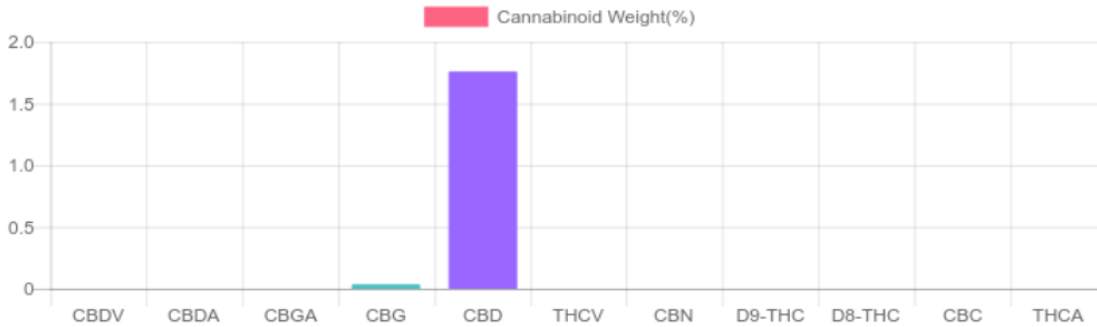
N/D D9-THC	1.761% Total CBD
508.2 mg Cannabinoids per container	498.3 mg CBD per container

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 PREPARED: 02/12/2020 17:18:19 UPLOADED: 02/13/2020 09:03:28

Cannabinoids	LOQ	weight(%)	mg/g	mg/container
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	1.761%	17.609	498.3
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	0.035%	0.351	9.9
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*		1.761%	17.609	498.3
TOTAL CANNABINOIDS		1.796%	17.960	508.2

1 container = 28.3 grams per container 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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 info@greenscientificlabs.com
 1-833 TEST CBD



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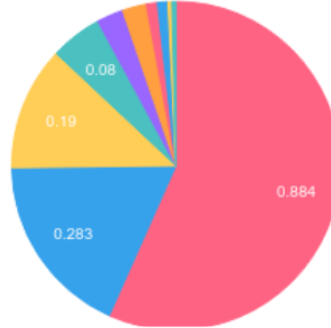
TERPENES: TOTAL (1.560%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

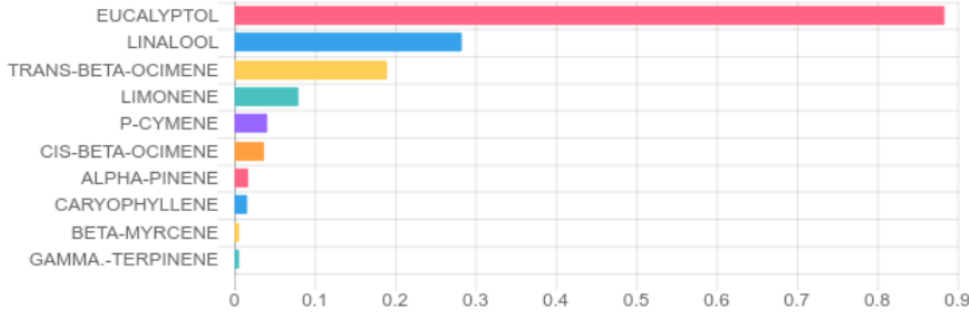
GSL SOP 404
 Prepared: 02/12/2020 17:40:52
 Uploaded: 02/13/2020 12:39:09

Terpene	Results (%)	LOQ (%)	LOD (%)
ALPHA-PINENE	0.017%	0.0067%	0.0063%
BETA-MYRCENE	B/LOQ	0.0067%	0.0063%
CARYOPHYLLENE	0.016%	0.0067%	0.0063%
CIS-BETA-OCIMENE	0.037%	0.0067%	0.0031%
EUCALYPTOL	0.884%	0.0067%	0.0063%
GAMMA.-TERPINENE	B/LOQ	0.0067%	0.0016%
LIMONENE	0.080%	0.0067%	0.0063%
LINALOOL	0.283%	0.0067%	0.0063%
P-CYMENE	0.041%	0.0067%	0.0063%
TRANS-BETA-OCIMENE	0.190%	0.0067%	0.0031%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

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

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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405
 Prepared: 02/12/2020 17:39:03
 Uploaded: 02/14/2020 07:55:15

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	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ISOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	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	1	N/D	0	0
XYLENES	2,170	N/D	130	20

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Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 02/13/2020 18:38:33

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
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
COLIFORM	USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
ENTEROBACTERIACEAE	USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	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 Select Category Type Gummy MIP/Extract Flower 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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Completed: 02/14/2020



Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 02/13/2020 10:41:27

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

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 02/13/2020 11:29:28

Water

0.72

Filth and Foreign Materials Analysis:

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

Uploaded: 02/13/2020 11:59:13

Pass: No Foreign Materials Detected

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 02/13/2020 18:37:36

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

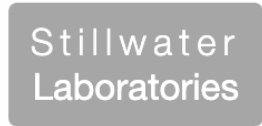
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https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID sample date 2/18/20 9:48 AM
 order 6598 labID 0BM66 weight
 source

Methods

	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.10	ICPMS2030

topical



Potency

% estimated error

Terpenes

% estimated error

% estimated error

% estimated error

potency not tested

terpenes not tested / not required

Solvents

MT limit 0BM66 LOQ

Pesticides (MT)

MT limit 0BM66 LOQ

Pesticides (other)

0BM66 LOQ

solvents not tested / not required

abamectin	0.00 ppm	<10ppb	acephate	0.00 ppm	<10ppb
acequinocyl	0.00 ppm	<10ppb	acetamiprid	0.00 ppm	<10ppb
bifenazate	0.00 ppm	<10ppb	aldicarb	0.00 ppm	<10ppb
bifenthrin	0.00 ppm	<10ppb	azoxystrobin	0.00 ppm	<10ppb
chlormequat cl.	0.00 ppm	<10ppb	boscalid	0.00 ppm	<10ppb
cyfluthrin	0.00 ppm	<80ppb	carbaryl	0.00 ppm	<10ppb
diaminozide	0.00 ppm	<10ppb	carbofuran	0.00 ppm	<10ppb
etoxazole	0.00 ppm	<10ppb	chloanthraniliprole	0.00 ppm	<10ppb
fenoxycarb	0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
imazalil	0.00 ppm	<10ppb	clofentezine	0.00 ppm	<10ppb
imidacloprid	0.00 ppm	<10ppb	cypermethrin	0.00 ppm	<10ppb
myclobutanil	0.00 ppm	<10ppb	diazinon	0.00 ppm	<10ppb
paclobutrazol	0.00 ppm	<10ppb	dichlorvos	0.00 ppm	<10ppb
pyrethrins	0.00 ppm	<10ppb	dimethoate	0.00 ppm	<10ppb
spinosad	0.00 ppm	<10ppb	etofenprox	0.00 ppm	<10ppb
spiromesifen	0.00 ppm	<10ppb	fenpyroximate	0.00 ppm	<10ppb
spirotetramat	0.00 ppm	<10ppb	fipronil	0.00 ppm	<10ppb
trifloxystrobin	0.00 ppm	<10ppb	flonicamid	0.00 ppm	<10ppb
			fludioxonil	0.00 ppm	<10ppb
			hexythiazox	0.00 ppm	<10ppb
			kresoxym-methyl	0.00 ppm	<10ppb
			malathion	0.00 ppm	<10ppb
			metalaxyl	0.00 ppm	<10ppb
			methiocarb	0.00 ppm	<10ppb
			methomyl	0.00 ppm	<10ppb
			oxamyl	0.00 ppm	<10ppb
			permethrins	0.00 ppm	<10ppb
			phosmet	0.00 ppm	<10ppb
			piperonyl butoxide	0.00 ppm	<10ppb
			prallethrin	0.00 ppm	<10ppb
			propiconazole	0.00 ppm	<10ppb
			pyridaben	0.00 ppm	<10ppb
			spiroxamine	0.00 ppm	<10ppb
			tebuconazole	0.00 ppm	<10ppb
			thiacloprid	0.00 ppm	<10ppb
			thiamethoxam	0.00 ppm	<10ppb

Toxic Metals

MT limit 0BM66 LOQ

metals not tested / not required

Microbial

MT limit 0BM66 LOQ

microbial not tested

Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Comments

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ••• Decarboxyated cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_y² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_y. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
 Deputy Director
 6073 US93N, Olney MT 59927
 406-881-2019 rdb@stwlabs.com

Printed 2/20/2020 3:32 PM

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Order #: 37180
 Order Name: BSO2.092519.A
 Batch#: BSO2.092519.A
 Received: 09/27/2019
 Completed: 10/01/2019



Sample



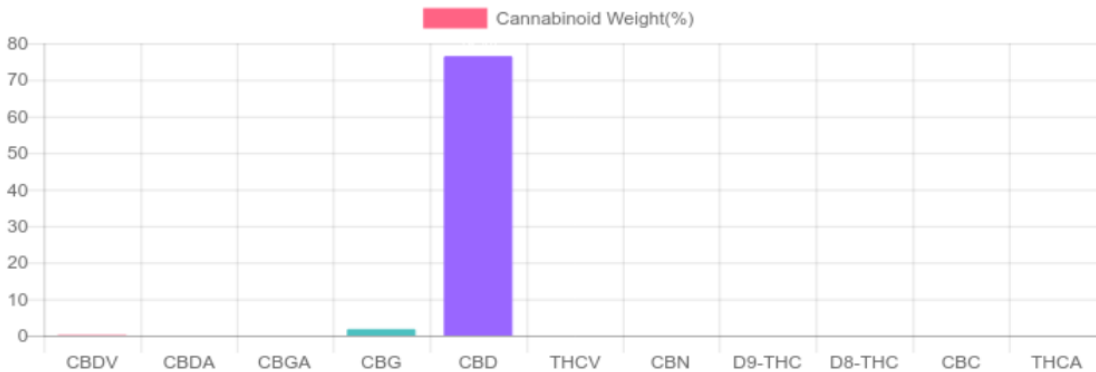
N/D
D9-THC

76.48%
Total CBD

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 PREPARED: 09/27/2019 22:34:39 UPLOADED: 09/30/2019 12:49:03

Cannabinoids	LOQ	weight(%)	mg/g
D9-THC	10 PPM	N/D	N/D
THCA	10 PPM	N/D	N/D
CBD	10 PPM	76.48%	764.84
CBDA	20 PPM	N/D	N/D
CBDV	20 PPM	0.11%	1.10
CBC	10 PPM	N/D	N/D
CBN	10 PPM	N/D	N/D
CBG	10 PPM	1.79%	17.90
CBGA	20 PPM	N/D	N/D
D8-THC	10 PPM	N/D	N/D
THCV	10 PPM	N/D	N/D
TOTAL D9-THC		N/D	N/D
TOTAL CBD*		76.48%	764.84
TOTAL CANNABINOIDS		78.38%	783.84



Reporting Limit 100 ppm
 *Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/LOQ - Below Limit of Quantification



4001 SW 47th Avenue Suite 208
 Davie, FL 33314
 1-833-TEST-CBD
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Andrew Hall
 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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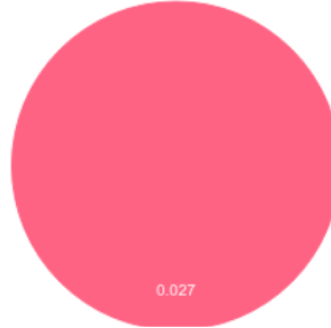
TERPENES: TOTAL (0.027%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

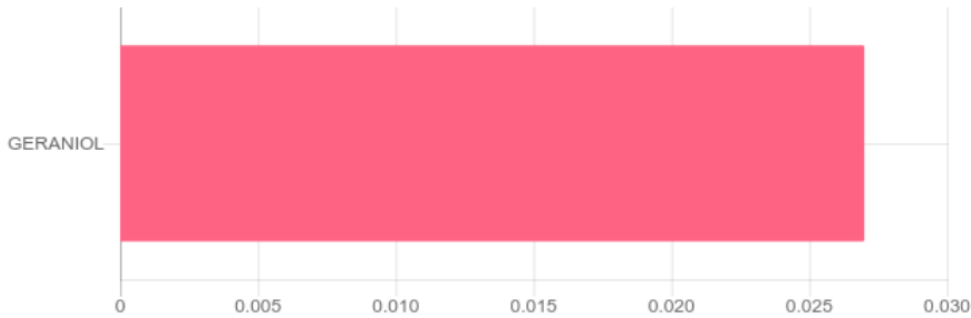
GSL SOP 404
 Prepared: 09/27/2019 22:57:12
 Uploaded: 09/30/2019 17:51:50

Terpene	Results (%)	LOQ (%)	LOD (%)
GERANIOL	0.027%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, P-CYMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, LINALOOL, ISOPULEGOL, CARYOPHYLLENE, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 09/27/2019 22:39:46

UPLOADED: 09/30/2019 20:39:11

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	IMAZALIL	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001	IMIDACLOPRID	5.000	N/D	0.005	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001	KRESOXIM-METHYL	0.100	N/D	0.010	0.005
ACETAMIPRID	0.100	N/D	0.005	0.001	MALATHION	0.500	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001	METALAXYL	2.000	N/D	0.001	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001	METHIOCARB	0.100	N/D	0.005	0.001
BIFENAZATE	0.100	N/D	0.005	0.001	METHOMYL	1.000	N/D	0.001	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BOSCALID	0.100	N/D	0.005	0.001	MYCLOBUTANIL	0.100	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	NALED	0.100	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	OXAMYL	0.500	N/D	0.001	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORPYRIFOS	0.100	N/D	0.001	0.001	PERMETHRINS	0.500	N/D	0.005	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001	PHOSMET	0.100	N/D	0.005	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001	PIPERONYL	3.000	N/D	0.001	0.001
DIAZANON	0.100	N/D	0.001	0.001	BUTOXIDE	0.100	N/D	0.005	0.005
DICHLORVOS	0.100	N/D	0.005	0.001	PRALLETHRIN	0.100	N/D	0.010	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	PROPICONAZOLE	0.100	N/D	0.001	0.001
DIMETHOMORPH	2.000	N/D	0.005	0.001	PROPOXUR	0.100	N/D	0.005	0.005
ETHOPROPHOS	0.100	N/D	0.001	0.001	PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.005	0.001
ETOFENPROX	0.100	N/D	0.001	0.001	PYRIDABEN	0.100	N/D	0.001	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
					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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 Dr. Andrew Hall, Ph.D., CSO & Lab Director

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CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37180
 Order Name: BSO2.092519.A
 Batch#: BSO2.092519.A
 Received: 09/27/2019
 Completed: 10/01/2019



RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 09/27/2019 22:31:38

Uploaded: 09/30/2019 18:55:54

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	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ISOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	100	20
N-HEPTANE	5,000	N/D	140	20
N-HEXANE	290	N/D	18	10
PENTANE	5,000	B/LOQ	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	N/D	53	1
TRICHLOROETHENE	1	N/D	0	0
XYLENES	2,170	N/D	130	20



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Order #: 37180
Order Name: BSO2.092519.A
Batch#: BSO2.092519.A
Received: 09/27/2019
Completed: 10/01/2019



Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 09/30/2019 21:50:39

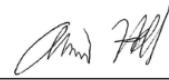
Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb



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