

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 57635
 Order Name: Sugar & Kush
 500mg CBD Orange Cream
 Tincture
 Batch#: 20SM1859
 Received: 07/13/2020
 Completed: 07/22/2020

Sugar & Kush
 126 Clifton Pl #P2001
 Jersey City NJ, 07304
 (201) 239-6211
 wecare@sugarandkush.com



Sample



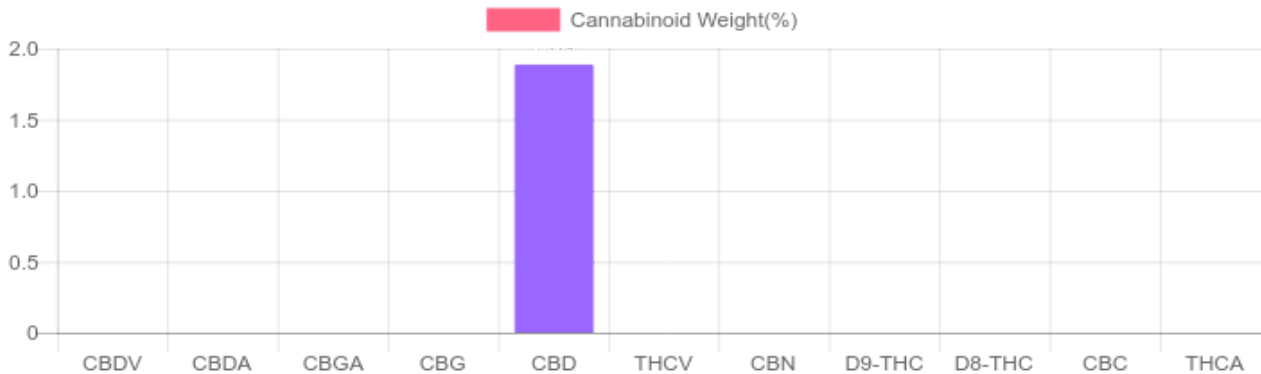
<p>N/D D9-THC</p>	<p>1.887% Total CBD</p>
<p>535.0 mg Cannabinoids per unit</p>	<p>535.0 mg CBD per unit</p>

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 **PREPARED:** 07/15/2020 18:04:06 **UPLOADED:** 07/16/2020 12:16:21

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	1.887%	18.870	535.0
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*		1.887%	18.870	535.0
TOTAL CANNABINOIDS		1.887%	18.870	535.0

1 unit = 30 ml per unit x density (0.945) 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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 1-833 TEST CBD



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 Cream Tincture
Batch #: 20SM1859
Complete: 07/22/2020



Cannabinoids	mg/unit
D9-THC	N/D
THCA	N/D
CBD	535.0
CBDA	N/D
CBDV	N/D
CBC	N/D
CBN	N/D
CBG	N/D
CBGA	N/D
D8-THC	N/D
THCV	N/D
TOTAL D9-THC	N/D
TOTAL CBD*	18.870
TOTAL CANNABINOIDS	18.870

N/D
Total THC

535.0 mg
Cannabinoids per unit

535.0 mg
CBD per unit

Heavy Metals	Result
ARSENIC (AS)	Pass
CADMIUM (CD)	Pass
MERCURY (HG)	Pass
LEAD (PB)	Pass

Microbials	Result
ASPERGILLUS FUMIGATUS	Pass
ASPERGILLUS TERREUS	Pass
ASPERGILLUS FLAVUS	Pass
ASPERGILLUS NIGER	Pass
STEC E. COLI	Pass
SALMONELLA	Pass

Terpene Name	Result
ALPHA-PINENE	NT
CAMPHENE	NT
BETA-MYRCENE	NT
BETA-PINENE	NT
3-CARENE	NT
ALPHA-TERPINENE	NT
TRANS-BETA-OCIMENE	NT
LIMONENE	NT
P-CYMENE	NT
CIS-BETA-OCIMENE	NT
EUCALYPTOL	NT
GAMMA--TERPINENE	NT

Terpene Name	Result
TERPINOLENE	NT
LINALOOL	NT
ISOPULEGOL	NT
GERANIOL	NT
CARYOPHYLLENE	NT
HUMULENE	NT
CIS-NEROLIDOL	NT
TRANS-NEROLIDOL	NT
GUAIOL	NT
CARYOPHYLLENE OXIDE	NT
ALPHA-BISABOLOL	NT

Solvent	Result
1,1-DICHLOROETHENE	Fail
1,2-DICHLOROETHANE	Fail
ACETONE	Pass
ACETONITRILE	Pass
BENZENE	Pass
BUTANE	Pass
CHLOROFORM	Pass
CIS 1,2-DICHLOROETHENE	Pass
ETHANOL	Pass
ETHYL ACETATE	Pass
ETHYL ETHER	Pass
ETHYLENE OXIDE	Pass
ISOPROPYL ALCOHOL	Pass
METHANOL	Pass
METHYLENE CHLORIDE	Pass
N-HEPTANE	Pass
N-HEXANE	Pass
PENTANE	Pass
PROPANE	Pass
TOLUENE	Pass
TRANS 1,2-DICHLOROETHENE	Pass
TRICHLOROETHENE	Pass
XYLENES	Pass

Pesticide Name	Result
ABAMECTIN B1A	Pass
ACEPHATE	Pass
ACEQUINOCYL	Pass
ACETAMIPRID	Pass
ALDICARB	Pass
AZOXYSTROBIN	Pass
BIFENAZATE	Pass
BIFENTHRIN	Pass
BOSCALID	Pass
CAPTAN	Pass
CARBARYL	Pass
CARBOFURAN	Pass
CHLORANTRANILIPROLE	Pass
CHLORDANE	Pass
CHLORFENAPYR	Pass
CHLORPYRIFOS	Pass
CLOFENTEZINE	Pass
COUMAPHOS	Pass

Pesticide Name	Result
CYFLUTHRIN	Pass
CYPERMETHRIN	Pass
DAMINOZIDE	Pass
DIAZANON	Pass
DICHLORVOS	Pass
DIMETHOATE	Pass
DIMETHOMORPH	Pass
ETHOPROPHOS	Pass
ETOXAZOLE	Pass
FENHEXAMID	Pass
FENOXICARB	Pass
FENPYROXIMATE	Pass
FIPRONIL	Pass
FLONICAMID	Pass
FLUDIOXONIL	Pass
HEXYTHIAZOX	Pass
IMAZALIL	Pass

Pesticide Name	Result
IMIDACLOPRID	Pass
KRESOXIM-METHYL	Pass
MALATHION	Pass
METALAXYL	Pass
METHIOCARB	Pass
METHOMYL	Pass
MEVINPHOS	Pass
MYCLOBUTANIL	Pass
NALED	Pass
OXAMYL	Pass
PACLOBUTRAZOL	Pass
PARATHION-METHYL	Pass
PENTACHLORONITROBENZENE	Pass
PERMETHRINS	Pass
PHOSMET	Pass
PIPERONYL BUTOXIDE	Pass
PRALLETHRIN	Pass
PROPICONAZOLE	Pass

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 Chief Scientific Officer

Ben Witten, MS, MT.,
 Lab Director

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N/D: Not Detected
 B/LOQ: Below Limit of Quantification

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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 07/15/2020 18:19:09

UPLOADED: 07/17/2020 15:30:30

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)
CYFLUTHRIN	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	0.022	0.001	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001
DIAZINON	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	B/LOQ	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	0.006	0.005	0.001
PIPERONYL	3.000	N/D	0.001	0.001
BUTOXIDE	0.100	N/D	0.005	0.005
PRALLETHRIN	0.100	N/D	0.010	0.005
PROPICONAZOLE	0.100	N/D	0.001	0.001
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
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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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 07/20/2020 16:11:11

Uploaded: 07/22/2020 09:31:59

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	B/LOQ	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	N/D	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: 07/16/2020 14:38:04

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

† 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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Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 07/16/2020 19:10:47

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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