

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 59649  
**Order Name:** Sugar & Kush  
 3000mg Cotton Candy CBD  
 Tincture  
**Batch#:** 20SM2119  
**Received:** 08/11/2020  
**Completed:** 08/17/2020

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



### Sample



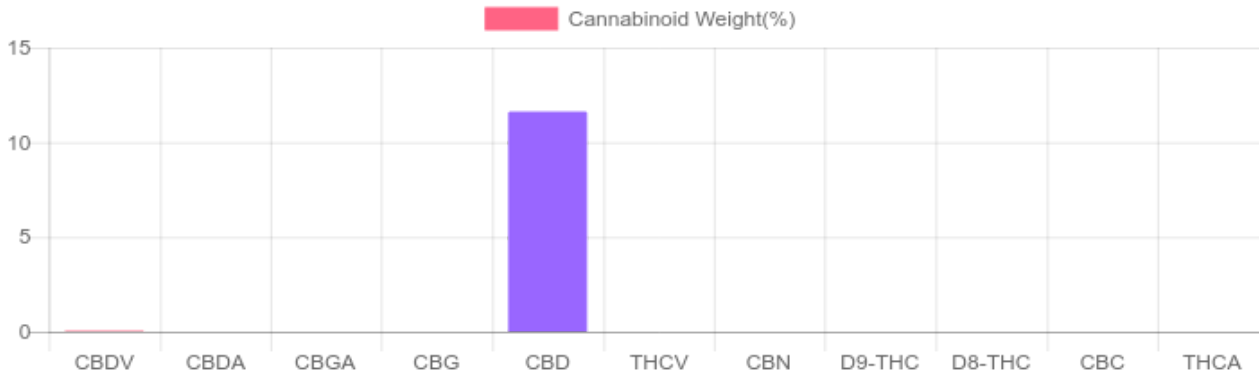
<b>N/D</b> D9-THC	<b>11.621%</b> Total CBD
<b>3,306.1 mg</b> Cannabinoids per unit	<b>3,294.7 mg</b> CBD per unit

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      **PREPARED:** 08/12/2020 13:17:16      **UPLOADED:** 08/13/2020 08:11:45

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	<b>11.621%</b>	<b>116.214</b>	<b>3,294.7</b>
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	<b>0.040%</b>	<b>0.401</b>	<b>11.4</b>
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		<b>N/D</b>	<b>N/D</b>	<b>N/D</b>
TOTAL CBD*		<b>11.621%</b>	<b>116.214</b>	<b>3,294.7</b>
TOTAL CANNABINOIDS		<b>11.661%</b>	<b>116.615</b>	<b>3,306.1</b>

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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 info@greenscientificlabs.com  
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**Order #:** 59649  
**Order Name:** Sugar & Kush 3000mg Cotton Candy  
 CBD Tincture  
**Batch #:** 20SM2119  
**Complete:** 08/17/2020



Cannabinoids	weight(%)	mg/g
D9-THC	N/D	N/D
THCA	N/D	N/D
CBD	11.621%	116.214
CBDA	N/D	N/D
CBDV	0.040%	0.401
CBC	N/D	N/D
CBN	N/D	N/D
CBG	N/D	N/D
CBGA	N/D	N/D
D8-THC	N/D	N/D
THCV	N/D	N/D
TOTAL D9-THC	N/D	N/D
TOTAL CBD*	11.621%	116.214
TOTAL CANNABINOIDS	11.661%	116.615

**N/D**  
D9-THC

**11.621%**  
Total CBD unit

**3,306.1 mg**  
Cannabinoids per unit

**3,294.7 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

Solvent	Result	Pesticide Name	Result	Pesticide Name	Result	Pesticide Name	Result
1,1-DICHLOROETHENE	Pass	ABAMECTIN B1A	Pass	CYFLUTHRIN	Pass	IMIDACLOPRID	Pass
1,2-DICHLOROETHANE	Pass	ACEPHATE	Pass	CYPERMETHRIN	Pass	KRESOXIM-METHYL	Pass
ACETONE	Pass	ACEQUINOCYL	Pass	DAMINOZIDE	Pass	MALATHION	Pass
ACETONITRILE	Pass	ACETAMIPRID	Pass	DIAZANON	Pass	METALAXYL	Pass
BENZENE	Pass	ALDICARB	Pass	DICHLORVOS	Pass	METHIOCARB	Pass
BUTANE	Pass	AZOXYSTROBIN	Pass	DIMETHOATE	Pass	METHOMYL	Pass
CHLOROFORM	Pass	BIFENAZATE	Pass	DIMETHOMORPH	Pass	MEVINPHOS	Pass
CIS 1,2-DICHLOROETHENE	Pass	BIFENTHRIN	Pass	ETHOPROPHOS	Pass	MYCLOBUTANIL	Pass
ETHANOL	Pass	BOSCALID	Pass	ETOFENPROX	Pass	NALED	Pass
ETHYL ACETATE	Pass	CAPTAN	Pass	ETOXAZOLE	Pass	OXAMYL	Pass
ETHYL ETHER	Pass	CARBARYL	Pass	FENHEXAMID	Pass	PACLOBUTRAZOL	Pass
ETHYLENE OXIDE	Pass	CARBOFURAN	Pass	FENOXYCARB	Pass	PARATHION-METHYL	Pass
ISOPROPYL ALCOHOL	Pass	CHLORANTRANILIPROLE	Pass	FENPYROXIMATE	Pass	PENTACHLORONITROBENZENE	Pass
METHANOL	Pass	CHLORDANE	Pass	FIPRONIL	Pass	PERMETHRINS	Pass
METHYLENE CHLORIDE	Pass	CHLORFENAPYR	Pass	FLONICAMID	Pass	PHOSMET	Pass
N-HEPTANE	Pass	CHLORPYRIFOS	Pass	FLUDIOXONIL	Pass	PIPERONYL BUTOXIDE	Pass
N-HEXANE	Pass	CLOFENTEZINE	Pass	HEXYTHIAZOX	Pass	PRALLETHRIN	Pass
PENTANE	Pass	COUMAPHOS	Pass	IMAZALIL	Pass	PROPICONAZOLE	Pass
PROPANE	Pass						
TOLUENE	Pass						
TRANS 1,2-DICHLOROETHENE	Pass						
TRICHLOROETHENE	Pass						
XYLENES	Pass						

  
 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



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

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 3000mg Cotton Candy CBD  
 Tincture  
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 Received: 08/11/2020  
 Completed: 08/17/2020

Sugar & Kush  
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 Jersey City NJ, 07304  
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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 08/12/2020 16:56:00

UPLOADED: 08/13/2020 17:45:04

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	N/D	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
IMAZALIL	0.100	N/D	0.005	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
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	N/D	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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 info@greenscientificlabs.com  
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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405  
 Prepared: 08/13/2020 19:22:42  
 Uploaded: 08/14/2020 14:38:34

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	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: 08/13/2020 18:09:17

### 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: 08/17/2020 13:17:27

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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