

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 77147  
 Order Name: Kadenwood Lvl 2  
 Sports Cream 1200mg/90mL  
 Batch#: B21A25A/21126B1  
 Received: 05/11/2021  
 Completed: 05/13/2021



### Sample



### Cannabinoid Summary

N/D D9-THC	1.546% Total CBD
1,314.0 mg Cannabinoids per unit	1,314.0 mg CBD per unit

### Batch Info

ID:  
 Date:  
 Exp. Date:  
 Size:  
 Total Qty Produced:

### Report Download Info

URL: <https://www.verifycbd.com/report/6c08z12d5b>

1 unit = 85 grams per unit x  
 Cannabinoid concentration

### Testing Summary

Tested Cannabinoids	Pass Pesticide	Tested Terpenes
Pass Microbial	Pass Residual Solvents	Pass Mycotoxin
Pass Heavy Metals	Tested Water Activity	Pass Filt and Foreign

D9-THC
THCA
CBD 1.546%
CBDA
CBDV
CBC
CBN
CBG
CBGA
D8-THC
THCV

### Instruments

GCMS-MS - Shimadzu GCMS-TQ8040  
 LCMS-MS - Shimadzu LCMS-8060  
 Headspace GCMS - Shimadzu GCMS QP2020 with HS20  
 SHIMADZU INTEGRATED UPLC-PDA  
 ICP-MS - Shimadzu ICPMS-2030  
 LC-MS - Shimadzu LCMS-8060  
 PCR - Agilent AriaMX  
 HD-3A Water Activity Meter  
 Amscope Simul-Focal Trinocular Stereo Zoom Microscope

### SOPS

Cannabinoids Test - GSL SOP 400  
 Terpenes Test - GSL SOP 404  
 Pesticide Analysis - GSL SOP 401  
 Residual Solvents - GSL SOP 405  
 Heavy Metals Analysis- GSL SOP 403  
 Mycotoxin Analysis - GSL SOP 401  
 Microbial Analysis - GSL SOP 406  
 Water Activity - GSL SOP 407  
 Filt and Foreign Materials Analysis - GSL SOP 409

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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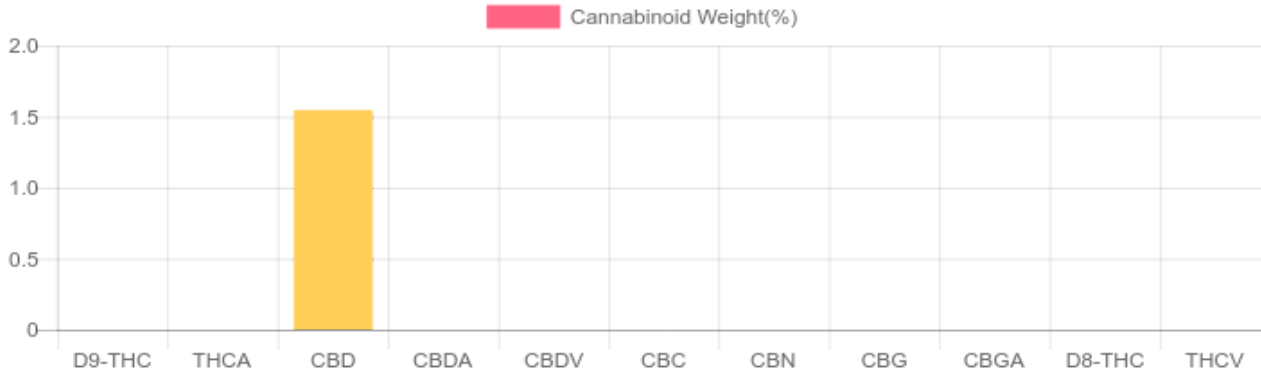
N/D D9-THC	1.546% Total CBD
1,314.0 mg Cannabinoids per unit	1,314.0 mg CBD per unit

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      PREPARED: 05/11/2021 19:08:11      UPLOADED: 05/12/2021 12:31:35

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>1.546%</b>	<b>15.459</b>	<b>1,314.015</b>
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*		<b>1.546%</b>	<b>15.459</b>	<b>1,314.0</b>
TOTAL CANNABINOIDS		<b>1.546%</b>	<b>15.459</b>	<b>1,314.0</b>

1 unit = 85 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

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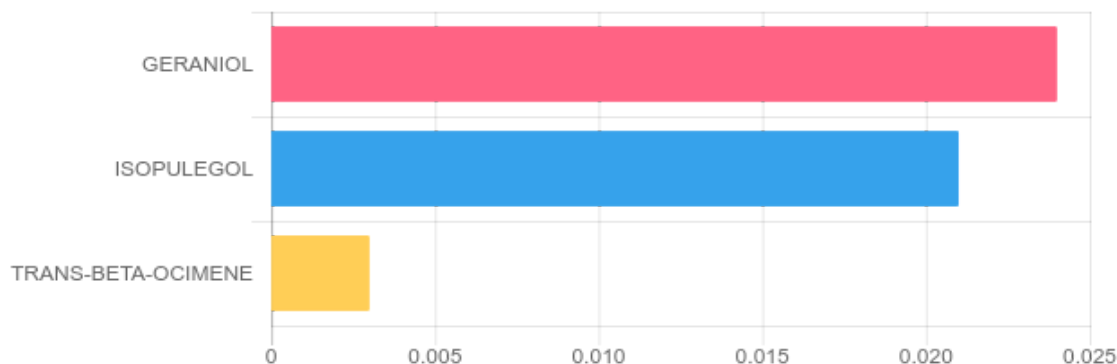
### TERPENES: TOTAL (0.052%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 404  
 Prepared: 05/11/2021 20:09:42  
 Uploaded: 05/12/2021 07:38:19

Terpene	Results (%)	LOQ (%)	LOD (%)	Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.003%	0.001%	P-CYMENE	B/LOQ	0.003%	0.001%
ALPHA-BISABOLOL	B/LOQ	0.003%	0.001%	TERPINOLENE	B/LOQ	0.003%	0.001%
ALPHA-PINENE	B/LOQ	0.003%	0.001%	TRANS-BETA-OCIMENE	0.003%	0.003%	0.001%
ALPHA-TERPINENE	B/LOQ	0.003%	0.001%	TRANS-NEROLIDOL	B/LOQ	0.003%	0.001%
BETA-MYRCENE	B/LOQ	0.003%	0.001%				
BETA-PINENE	B/LOQ	0.003%	0.001%				
CAMPHENE	B/LOQ	0.003%	0.001%				
CARYOPHYLLENE	B/LOQ	0.003%	0.001%				
CARYOPHYLLENE OXIDE	B/LOQ	0.003%	0.001%				
CIS-BETA-OCIMENE	B/LOQ	0.003%	0.001%				
CIS-NEROLIDOL	B/LOQ	0.003%	0.001%				
EUCALYPTOL	B/LOQ	0.003%	0.001%				
GAMMA.-TERPINENE	B/LOQ	0.003%	0.001%				
GERANIOL	0.024%	0.003%	0.001%				
GUAIOL	B/LOQ	0.003%	0.001%				
HUMULENE	B/LOQ	0.003%	0.001%				
ISOPULEGOL	0.021%	0.003%	0.001%				
LIMONENE	B/LOQ	0.003%	0.001%				
LINALOOL	B/LOQ	0.003%	0.001%				

### Top Terpenes Results:



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Ben Witten, MS, MT., Lab Director

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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 05/11/2021 17:01:48

UPLOADED: 05/13/2021 19:34:11

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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 Ben Witten, MS, MT., Lab Director

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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 05/11/2021 19:58:28

Uploaded: 05/12/2021 13:13:23

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	B/LOQ	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

Uploaded: 05/13/2021 21:34:03

PCR - Agilent AriaMX

fa

### 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**	1,000 CFU/G	NOT DETECTED	PASS
AEROBIC BACTERIA COUNT	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	10,000 CFU/G	NOT DETECTED	PASS
ENTEROBACTERIACEAE	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	100 CFU/G	NOT DETECTED	PASS
COLIFORM	406.01	USP 61/62†	ARIAMX PCR	CFU/G BY SAMPLE TYPE**	100 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: 05/13/2021 19:34:10

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: 05/11/2021 20:31:25

#### Moisture %

77.3%

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 05/12/2021 18:18:11

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: 05/11/2021 20:31:26

#### Water

0.95

### Filth and Foreign Materials Analysis:

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

Uploaded: 05/12/2021 08:49:33

Pass: No Foreign Materials Detected

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