



Certificate of Analysis

Feb 18, 2020 | CanniLabs

10555 W Donges Court Milwaukee
Wisconsin , USA 53224

CanniLabs

SAMPLE:DA00213015-001

Harvest/Lot ID: R02122020

Seed to Sale #N/A

Batch Date :N/A

Batch#: R02122020

Sample Size Received: 11

Ordered : 02/12/20

Sampled : 02/12/20

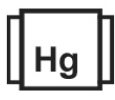
Completed: 02/18/20 Expires: 02/18/21

Sampling Method: SOP Client Method

PASSED

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PRODUCT IMAGE SAFETY RESULTS


Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
PASSED

Residuals
Solvents
PASSED

Filtration
PASSED

Water Activity
NOT TESTED

Moisture
NOT TESTED

Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC

2.936%

THC/Container :29.36
mg


Total CBD

79.447%

CBD/Container :794.47
mg


Total Cannabinoids

90.408%


CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
5.342 %	ND	1.505 %	ND	ND	1.178 %	ND	ND	79.447 %	2.936 %	ND
53.420 mg/g	ND	15.050 mg/g	ND	ND	11.780 mg/g	ND	ND	794.470 mg/g	29.360 mg/g	ND
0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.0001 ppm	0.0001 ppm	0.001 ppm

Cannabinoid Profile Test

Analyzed by 1224	Weight 0.1034g	Extraction date : 02/13/20 12:02:07	Extracted By : 574
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 02/14/20 10:00:30	
Analytical Batch -DA010220POT		Batch Date : 02/13/20 10:48:26	
Instrument Used : DA-LC-003			

Reagent	Dilution	Consums. ID
021120.R16	400	76124-662
021220.R11		SFN-BX-1025
021220.R12		849C4-849AK
		840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 -mg/L).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

02/18/2020

Signed On



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PASSED

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Telephone: 414-841-6787
Email: Boris@cannilabs.com

Sample : DA00213015-001
Harvest/LOT ID: R02122020

Batch# : R02122020 **Sample Size received : 11**
Sampled : 02/12/20 **Completed : 02/18/20** **Expires : 02/18/21**
Ordered : 02/12/20 **Sample Method : SOP Client Method**

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.02	ppm	0.3	ND	NALED	0.01	ppm	0.5	ND
ACEPHATE	0.001	ppm	3	ND	OXAMYL	0.01	ppm	0.5	ND
ACEQUINOCYL	0.01	ppm	2	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PHOSMET	0.01	ppm	0.2	ND
ALDICARB	0.02	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
BIFENAZATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PROPOXUR	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	PYRETHRINS	0.01	ppm	1	ND
CARBARYL	0.01	ppm	0.5	ND	PYRIDABEN	0.01	ppm	3	ND
CARBOFURAN	0.01	ppm	0.1	ND	SPINETORAM	0.01	PPM	3	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.02	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
COUMAPHOS	0.005	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
DAMINOZIDE	0.02	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	THIAMETHOXAM	0.01	ppm	1	ND
DICHLORVOS	0.05	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
DIMETHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	1	ND
DIMETHOMORPH	0.005	ppm	3	ND	TOTAL SPINOSAD	1	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					



Pesticides

PASSED

Analyzed by 56 **Weight** 1.0270g **Extraction date** 02/13/20 12:02:28 **Extracted By** 1082

Analysis Method -SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090
Analytical Batch - DA010221PES
Instrument Used : LCMS E-SHI-039
Batch Date : 02/13/20 11:21:04

Reviewed On - 02/14/20 08:34:58

Reagent 012120.17 012140.002 012140.003 **Dilution** 10 **Consums. ID** 846C7-8323

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Volatile Pesticides may be tested with GCMSMS under SOP.T.40.070 and SOP.T.40.090.

Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164

Signature

02/18/2020

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Sample Method : SOP Client Method

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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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SOLVENT	LOD	Units	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	5000	PASS	ND
ETHYL ACETATE	36	ppm	400	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
HEPTANE	45	ppm	5000	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
PROPANE	120	ppm	5000	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by 850 **Weight** 0.0238g **Extraction date** 02/13/20 04:02:38 **Extracted By** 850

Analysis Method -SOP.T.40.032

Analytical Batch -DA010234SOL **Reviewed On** - 02/17/20 12:15:42

Instrument Used : Headspace

GCMS

Batch Date : 02/13/20 16:09:34

Reagent	Dilution	Consums. ID
	1	00276446 161040-1 24152436

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

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Lab Director

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Harvest/LOT ID: R02122020

Batch# : R02122020

Sampled : 02/12/20

Ordered : 02/12/20

Sample Size received : 11

Completed : 02/18/20 Expires : 02/18/21

Sample Method : SOP Client Method

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	Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065

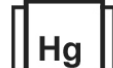
Analytical Batch -DA010272MYC | Reviewed On - 02/14/20 14:12:40

Instrument Used : LCMS E-SHI-039

Batch Date : 02/14/20 13:28:59

Analyzed by	Weight	Extraction date	Extracted By
56	1.027g	02/14/20 02:02:37	56

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS, LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

	Heavy Metals	PASSED
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Reagent	Reagent	Dilution	Consums. ID	Consums. ID
021220.R17	020720.R02	50		
020620.R01	111319.01			
021320.R11	012920.R01			
020620.R02				
012920.R03				
020520.R01				

Metal	LOD	Units	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	1.5
CADMIUM	0.02	ppm	ND	0.5
LEAD	0.02	ppm	ND	0.5
MERCURY	0.02	ppm	ND	3


Analyzed by	Weight	Extraction date	Extracted By
457	0.2601g	02/13/20 01:02:27	457

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -DA010213HEA | Reviewed On - 02/14/20 14:45:52

Instrument Used : ICPMS-2030 B

Batch Date : 02/13/20 09:13:10

	Microbials	PASSED
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Analyte

ASPERGILLUS_FLAVUS
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_NIGER
ASPERGILLUS_TERREUS
ESCHERICHIA_COLI_SHIGELLA_SPP
SALMONELLA_SPECIFIC_GENE

Result

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Analysis Method -SOP.T.40.043

Analytical Batch -DA010216MIC | Reviewed On - 02/14/20 14:33:01

Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX PCR_DA-010

Batch Date : 02/13/20 09:27:52

Analyzed by	Weight	Extraction date	Extracted By
513	1.0611g	02/13/20 01:02:03	513

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.