

Certificate of Analysis

Nov 22, 2021

Harvest/Lot ID: 8

Seed to Sale# N/A

Batch Date: 10/15/21

Sample Size Received: 12 gram

Total Weight/Volume: N/A

Retail Product Size: 1 gram

Ordered : 11/12/21

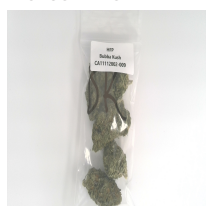
sampled : 11/12/21

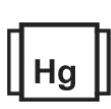
Completed: 11/22/21 Expires: 11/22/21

Sampling Method: SOP Client Method

TESTED

Page 1 of 4

PRODUCT IMAGE

SAFETY RESULTS

Pesticides
PASS

Heavy Metals
PASS

Microbials
PASS

Mycotoxins
PASS

Residuals Solvents
NOT TESTED

Filtration
PASS

Water Activity
PASS

Moisture
TESTED

Terpenes
TESTED
MISC.
CANNABINOID RESULTS

Total THC
0.903%

Total CBD
15.141%

Total Cannabinoids
19.16%

Filtration
PASS

Analyzed By	Weight	Extraction date	Extracted By
1048	NA	NA	NA
Analyte	LOD	Result	
Insect fragments, hairs & mammalian excreta	0.1	0	
Analysis Method -SOP.T.40.013			
Analytical Batch -NA			
Instrument Used :			
Running On :			
Batch Date :			
Reviewed On - 11/17/21 11:39:33			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.


Water Activity
PASS

Analyte	Analyzed by	Weight	Ext. date	LOD	A.L.	Result
WATER ACTIVITY	1048	0.542g	NA	0.001 Aw	0.65Aw	0.448Aw
Analysis Method -Water activity:						
Expanded measurement of uncertainty: 0.016. Expanded measurements of uncertainties are statistically derived from QC data at 95% confidence level (k=1.96) for a normal distribution.						
Analytical Batch -CA001125WAT						
Instrument Used : Rotronic Water Meter HygroPalm23-AW (MO-WA-01)						
Batch Date : 11/15/21 10:33:59						
Reviewed On - 11/17/21 11:44:16						


Moisture
TESTED

Analyte	Analyzed by	Weight	Ext. date	LOD	A.L.	Result
MOISTURE CONTENT	1048	0.523g	11/15/21	1 %		8.43%
Analysis Method -SOP.T.40.011						
Analytical Batch -CA001124MOI						
Instrument Used : Shimadzu UniBloc Moisture Content Analyzer (MO-MA-01)						
Batch Date : 11/15/21 10:33:07						
Reviewed On - 11/16/21 09:26:07						

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1048	0.501g	NA	NA
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -CA001127POT			
Instrument Used : HPLC-3Dplus(MO-HPLC-01)			
Running On :			
Reagent	Dilution	Consums. ID	
081021.02	400	PS-7510-1	
060121.23		VAV-09-1020	
111221.R01		ALK-09-1412	
111621.R01		20050390	
111121.R03		842751369	
		K471831	
		L327011	
		F2300-20	

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 0.5 mg/L). The results of total THC, total CBD and total Cannabinoids in plant sample are reported on a dry weight basis. Expanded measurements of uncertainties are statistically derived from QC data at 95% confidence level (k=1.96) for a normal distribution. This sample contains significant unquantified, unreported, non-target THC isomers, analogs, derivatives (possibly including, but not limited to exo-THC, delta-9(11)-THC, delta-10-THC, THC-esters, and others) that are beyond the scope of this assay & may be indicative of chemical synthesis

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 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.

Haifei Yin
Lab Director

State License # NA
ISO Accreditation #
L18-47-1



Signature

11/22/21

Signed On

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 Sample Size Received : 12 gram
 Total Weight/Volume : N/A
 Completed : 11/22/21 Expires: 11/22/22
 Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PINENE	0.0625	ND	ND		<div><div><div></div></div><div><div>Terpenes</div></div></div>				TESTED
ALPHA-TERPINENE	0.0625	ND	ND						
ALPHA-BISABOLOL	0.0625	0.688	0.068						
BETA-CARYOPHYLLENE	0.0625	3.45	0.345						
BETA-MYRCENE	0.0624	ND	ND						
BETA-PINENE	0.0625	ND	ND						
CAMPHENE	0.0625	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.0625	ND	ND						
CIS-NEROLIDOL	0.05375	ND	ND						
D-LIMONENE	0.0625	ND	ND						
DELTA-3-CARENE	0.0625	ND	ND						
EUCALYPTOL	0.0625	ND	ND						
GAMMA TERPINENE	0.0625	ND	ND						
GERANIOL	0.0625	ND	ND						
GUAIOL	0.0625	ND	ND						
HUMULENE	0.0625	0.995	0.099						
ISOPULEGOL	0.0625	ND	ND						
LINALOOL	0.0625	ND	ND						
OCIMENE ISOMER 1	0.0375	ND	ND						
P-CYME	0.0625	ND	ND						
OCIMENE ISOMER 2	0.0875	ND	ND						
TERPINOLENE	0.0625	ND	ND						
TRANS-NEROLIDOL	0.07125	ND	ND						
Total	5134.987 (ppm)	0.513 (%)							

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Pesticides

PASS

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DAMINOZIDE	0.04	ug/g	0.01	ND	HEXYTHIAZOX	0.01	ug/g	0.1	ND
ACEPHATE	0.01	ug/g	0.1	ND	ETOXAZOLE	0.01	ug/g	0.1	ND
OXAMYL	0.01	ug/g	0.5	ND	SPIROMESIFEN	0.01	ug/g	0.1	ND
THIAMETHOXAM	0.01	ug/g	5	ND	CYFLUTHRIN	0.08	ug/g	2	ND
METHOMYL	0.01	ug/g	1	ND	CYPERMETHRIN	0.02	ug/g	1	ND
IMIDACLOPRID	0.01	ug/g	5	ND	FENPYROXIMATE	0.01	ug/g	0.1	ND
ACETAMIPRID	0.01	ug/g	0.1	ND	PYRIDABEN	0.01	ug/g	0.1	ND
MEVINPHOS	0.02	ug/g	0.02	ND	ABAMECTIN B1A	0.007	ug/g	0.1	ND
DIMETHOATE	0.01	ug/g	0.01	ND	ETOXENPROX	0.01	ug/g	0.01	ND
THIACLOPRID	0.01	ug/g	0.01	ND	BIFENTHRIN	0.01	ug/g	3	ND
IMAZALIL	0.01	ug/g	0.01	ND	ACEQUINOCYL	0.01	ug/g	0.1	ND
ALDICARB	0.01	ug/g	0.01	ND	SPINOSADS	0.002	ug/g	0.1	ND
PROPOXUR	0.01	ug/g	0.01	ND	SPINETORAM	0.01	ug/g	0.1	ND
DICHLORVOS	0.01	ug/g	0.01	ND	PERMETHRINS	0.001	ug/g	0.5	ND
CARBOFURAN	0.01	ug/g	0.01	ND	PYRETHRINS	0.001	ug/g	0.5	ND
CARBARYL	0.01	ug/g	0.5	ND	PCNB *	0.01873	ug/g	0.1	ND
NALED	0.04	ug/g	0.1	ND	PARATHION-METHYL *	0.01356	ug/g	0.019	ND
CHLORANTRANILIPROLE	0.01	ug/g	10	ND	CAPTAN *	0.03668	ug/g	0.7	ND
METALAXYL	0.01	ug/g	2	ND	CHLORDANE *	0.02115	ug/g	0.024	ND
PHOSMET	0.01	ug/g	0.1	ND	CHLORFENAPYR *	0.01981	ug/g	0.019	ND
AZOXYSTROBIN	0.01	ug/g	0.1	ND					
FLUDIOXONIL	0.02	ug/g	0.1	ND					
SPIROXAMINE	0.01	ug/g	0.01	ND					
BOSCALID	0.01	ug/g	0.1	ND					
METHIOCARB	0.01	ug/g	0.01	ND					
PACLOBUTRAZOL	0.01	ug/g	0.01	ND					
MALATHION	0.01	ug/g	0.5	ND					
DIMETHOMORPH	0.01	ug/g	2	ND					
MYCLOBUTANIL	0.01	ug/g	0.1	ND					
BIFENAZATE	0.01	ug/g	0.1	ND					
FLONICAMID	0.02	ug/g	0.1	ND					
FENHEXAMID	0.02	ug/g	0.1	ND					
SPIROTETRAMAT	0.01	ug/g	0.1	ND					
FIPRONIL	0.01	ug/g	0.01	ND					
ETHOPROPHOS	0.01	ug/g	0.01	ND					
FENYOXICARB	0.01	ug/g	0.01	ND					
KRESOXIM-METHYL	0.01	ug/g	0.1	ND					
TEBUCONAZOLE	0.01	ug/g	0.1	ND					
COUMAPHOS	0.01	ug/g	0.01	ND					
DIAZINON	0.01	ug/g	0.1	ND					
PROPICONAZOLE	0.01	ug/g	0.1	ND					
CLOFENTEZINE	0.01	ug/g	0.1	ND					
TRIFLOXYSTROBIN	0.01	ug/g	0.1	ND					
PRALLETHRIN	0.01	ug/g	0.1	ND					
PIPERONYL BUTOXIDE	0.01	ug/g	3	ND					
CHLORPYRIFOS	0.01	ug/g	0.01	ND					



Pesticides

PASS

Analyzed by
1051, 1051

Weight
0.518g

Extraction date
NA

Extracted By
NA

Analysis Method - SOP.T.30.060, SOP.T.40.060, Pesticide screen is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 5 Volatile Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis and SOP.T.40.070 Procedure for Pesticide Quantification Using GCMS).

Analytical Batch - CA001129PES, CA001134VOL

Reviewed On- 11/17/21

11:39:33

Instrument Used : LCMS-8060 (PES) (MO-LCMS-01), GCMS-TQ8050_DER(MO-GCMSTQ-01)

Running On :

Batch Date : 11/17/21 10:14:53

Reagent

Dilution

Consums. ID

111720.04
092321.R01
101321.R07
062621.01
091721.R02
101321.R01
092321.R01

10

PS-7510-1
VAV-09-1020
66022-060
ALK-09-1412
80081-188
19210465
L398261
L422921
L371381
CA00922001-001
470228-424
298076054
286064127
76124-646

Expanded measurements of uncertainties are statistically derived from QC data at 95% confidence level (k=1.96) for a normal distribution. *

Haifei Yin
Lab Director

State License # NA
ISO Accreditation #
L18-47-1

Signature

11/22/21

Signed On

Certificate of Analysis

TESTED

 Sampled : 11/12/21
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 Sample Size Received : 12 gram
 Total Weight/Volume : N/A
 Completed : 11/22/21 Expires: 11/22/22
 Sample Method : SOP Client Method

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	Microbials	PASS		Mycotoxins	PASS
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Analyte	LOD	Result
SALMONELLA		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_TERREUS		not present in 1 gram.
SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI		not present in 1 gram.
SHIGA TOXIN-PRODUCING ESCHERICHIA. COLI		not present in 1 gram

Analysis Method -SOP.T.40.043

Analytical Batch -CA001140MIC Batch Date : 11/19/21 11:18:23

Instrument Used : Sensovation SensoSpot Fluorescence

Running On :

Analyzed by	Weight	Extraction date	Extracted By
1051	1.02g	NA	NA

Reagent Dilution Consums. ID	Consums. ID	Consums. ID	Consums. ID	Consums. ID	Consums. ID
061021.04 9	10025-726	1059-965	209058	RU13471	QU28720
122120.01	200103274	76322-134	226378	RU14275	RU14274
120919.01	89012-778	75830-564	19210331	RU12041	RU11952
010920.29	215918	6980A10	QU26793	842730950	03086
	13-681-506	107533-17-071520	QU27364	960550291	
	76322-154	207379	QU27000	QU24028	

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.

Analyte	LOD	Units	Result	Action Level
OCHRATOXIN A+	10	µg/kg	ND	20
AFLATOXIN B1	2	ug/kg	ND	20
AFLATOXIN G1	2	ug/kg	ND	20
AFLATOXIN G2	4	ug/kg	ND	20
AFLATOXIN B2	2	ug/kg	ND	20
TOTAL AFLATOXINS (SUM OF B1, B2, G1 & G2)	10	µg/kg	ND	20

Analysis Method -SOP.T.30.060, SOP.T.40.060

Analytical Batch -CA001133MYC | Reviewed On - 11/22/21 12:27:43

Instrument Used : LCMS-8060 (MYC) (MO-LCMS-01)

Running On :

Batch Date : 11/17/21 14:41:09

Analyzed by	Weight	Extraction date	Extracted By
1051	0.518g	11/22/21 12:11:04	1051

Expanded measurements of uncertainties are statistically derived from QC data at 95% confidence level (k=1.96) for a normal distribution.

	Heavy Metals	PASS
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Reagent	Reagent	Reagent	Dilution Consums. ID	Consums. ID
010220.01	111721.R06	102121.R01 1	2003055-9D-0266-TA	19210465
040920.02	111721.R07	062521.01	89049-174	L42292I
100721.R04	111721.R08	120919.01	350518130	O44859I
111721.R03	111721.R10		19303688	O48450I
111721.R04	111721.R09		19210388	O53523I
111721.R05	091720.02		19210576	

Metal	LOD	Unit	Result	Action Level
ARSENIC	0.001	µg/g	0.02	0.2
CADMIUM	0.004	µg/g	0.028	0.2
LEAD	0.009	µg/g	<LOQ	0.5
MERCURY	0.003	µg/g	ND	0.1

Analyzed by	Weight	Extraction date	Extracted By
1694	0.510g	NA	NA

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

Analytical Batch -CA001128HEA | Reviewed On - 11/17/21 16:58:15

Instrument Used : ICPMS-2030(MO-ICPMS-01)

Running On :

Batch Date : 11/17/21 09:23:17

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. Expanded measurements of uncertainties are statistically derived from QC data at 95% confidence level (k=1.96) for a normal distribution.