kaycha LABS

4131 SW 47th AVENUE SUITE 1408

Kaycha Labs

900mg Ultra Broad Spectrum Hemp Oil
N/A
Matrix: Derivative

Certificate of Analysis

Sample:DA00413005-002
Harvest/Lot ID: CS4015-BS9-2015
Seed to Sale #N/A
Batch Date :N/A
Batch#: CS4015-BS9-2015
Sample Size Received: 11 ml
Retail Product Size: 30
Ordered : 04/07/20
Sampled : 04/07/20
Completed: 04/15/20 Expires: 04/15/21
Sampling Method: SOP Client Method

Apr 15, 2020 | GREEN FLOWER BOTANICALS

1049 E. Brandon Blvd. Brandon
FL, USA 33511

GREEN FLOWER BOTANICALS

PASSED

PRODUCT IMAGE **SAFETY RESULTS** **MISC.**

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity	Moisture	Terpenes
PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	TESTED

CANNABINOID RESULTS

Total THC
0.012%
THC/Container :3.456 mg

Total CBD
3.249%
CBD/Container :935.712 mg

Total Cannabinoids
3.609%
Total Cannabinoids/Container :1039.392 mg

	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
	0.159%	ND	0.042%	ND	ND	0.024%	0.123%	ND	3.249%	0.012%	ND
	1.590 mg/g	ND	0.420 mg/g	ND	ND	0.240 mg/g	1.230 mg/g	ND	32.490 mg/g	0.120 mg/g	ND
LOD	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.0001 %	0.0001 %	0.001 %

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
450	3.0192g	04/13/20 09:04:45	965

Analysis Method -SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 04/14/20 12:01:04
Analytical Batch -DA011598POT **Instrument Used :** DA-LC-003 **Batch Date :** 04/13/20 08:53:13

Reagent	Dilution	Consums. ID
032320.30	400	180111
040720.R18		914C4-914AK
040720.R17		929C6-929H

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).

Filth — PASSED

Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
584	1g	04/13/20		584

Analysis Method -SOP.T.40.013 **Batch Date :** 04/13/20 11:58:06
Analytical Batch -DA011623FIL **Reviewed On -** 04/13/20 12:01:04
Instrument Used : Filth/Foreign Material Microscope

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 use for inspection.

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Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164

Signature

04/15/2020
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Email:
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Harvest/LOT ID: CS4015-BS9-2015

Batch# : CS4015-BS9-2015
Sampled : 04/07/20
Ordered : 04/07/20

Sample Size Received : 11 ml
Completed : 04/15/20 **Expires:** 04/15/21
Sample Method : SOP Client Method

Terpenes

TESTED

Terpenes	LOD	Units		Result (%)
ALPHA-CEDRENE	0.007	%	ND	
ALPHA-HUMULENE	0.007	%	ND	
ALPHA-PINENE	0.007	%	ND	
ALPHA-TERPINENE	0.007	%	ND	
BETA-MYRCENE	0.007	%	ND	
BETA-PINENE	0.007	%	ND	
BORNEOL	0.013	%	ND	
CAMPHENE	0.007	%	ND	
CAMPHOR	0.013	%	ND	
CARYOPHYLLENE OXIDE	0.007	%	ND	
CEDROL	0.007	%	ND	
ALPHA-BISABOLOL	0.007	%	ND	
SABINENE	0.007	%	ND	
SABINENE HYDRATE	0.007	%	ND	
TERPINEOL	0.007	%	ND	
TERPINOLENE	0.007	%	ND	
BETA-CARYOPHYLLENE	0.007	%	ND	
TRANS-NEROLIDOL	0.007	%	ND	
VALENCENE	0.007	%	ND	
PULEGONE	0.007	%	ND	
ALPHA-PHELLANDRENE	0.007	%	ND	
OCIMENE	0.007	%	ND	
NEROL	0.007	%	ND	
LINALOOL	0.007	%	ND	
LIMONENE	0.007	%	ND	
GUAIOL	0.007	%	ND	
GERANYL ACETATE	0.007	%	ND	
GERANIOL	0.007	%	ND	
GAMMA-TERPINENE	0.007	%	ND	
FENCHONE	0.007	%	ND	
FARNESENE	0.007	%	ND	

Terpenes	LOD	Units		Result (%)
EUCALYPTOL	0.007	%	ND	
ISOBORNEOL	0.007	%	ND	
HEXAHYDROTHYMOL	0.007	%	ND	
FENCHYL ALCOHOL	0.007	%	ND	
3-CARENE	0.007	%	ND	
CIS-NEROLIDOL	0.007	%	ND	
ISOPULEGOL	0.007	%	ND	

Total 0

Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By
1351	1.0002g	04/13/20 10:04:03	1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA011612TER **Reviewed On - 04/14/20 09:49:04**
Instrument Used : DA-GCMS-004
Batch Date : 04/13/20 09:39:42

Reagent	Dilution	Consums. ID
030620.04	10	180111
030620.07		280678841
012120.R13		
040720.08		

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography – Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

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N/A
Matrix : Derivative

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Harvest/LOT ID: CS4015-BS9-2015

Batch# : CS4015-BS9-2015
Sampled : 04/07/20
Ordered : 04/07/20

Sample Size Received : 11 ml
Completed : 04/15/20 **Expires:** 04/15/21
Sample Method : SOP Client Method

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND
ACEPHATE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND
ACETAMIPRID	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND
BOSCALID	0.01	PPM	3	ND
CARBARYL	0.05	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND
COUMAPHOS	0.01	ppm	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.02	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	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	0.01	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	0.04	ppm	3	ND
KRESOXIM-METHYL	0.01	ppm	1	ND
MALATHION	0.02	ppm	2	ND
METALAXYL	0.01	ppm	3	ND
METHIOCARB	0.01	ppm	0.1	ND
METHOMYL	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND

Pesticides	LOD	Units	Action Level	Result
MYCLOBUTANIL	0.01	ppm	3	ND
NALED	0.025	ppm	0.5	ND
OXAMYL	0.05	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
PHOSMET	0.01	ppm	0.2	ND
PIPERONYL BUTOXIDE	0.1	ppm	3	ND
PRALLETHRIN	0.01	ppm	0.4	ND
PROPICONAZOLE	0.01	ppm	1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRINS	0.05	ppm	1	ND
PYRIDABEN	0.02	ppm	3	ND
SPINETORAM	0.02	PPM	3	ND
SPIROMESIFEN	0.01	ppm	3	ND
SPIROTETRAMAT	0.01	ppm	3	ND
SPIROXAMINE	0.01	ppm	0.1	ND
TEBUCONAZOLE	0.01	ppm	1	ND
THIACLOPRID	0.01	ppm	0.1	ND
THIAMETHOXAM	0.05	ppm	1	ND
TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
TOTAL PERMETHRIN	0.01	ppm	1	ND
TOTAL SPINOSAD	0.01	ppm	3	ND
TRIFLOXYSTROBIN	0.01	ppm	3	ND

Pesticides — PASSED

Analyzed by	Weight	Extraction date	Extracted By
585	1.0520g	04/13/20 10:04:54	1082

Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090 , SOP.T.30.065, SOP.T.40.065, SOP.T40.060 and SOP.T.40.090
Analytical Batch - DA011610PES **Reviewed On-** 04/13/20 12:01:04
Instrument Used : DA-LCMS-001_DER (PES)
Batch Date : 04/13/20 09:35:59

Reagent	Dilution	Consums. ID
072919.19 020720.12 041320.R32 041320.R33 041320.R34	10	180111 280678841

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. * Pesticide screen is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 2 Volatile Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.090 Volatile Pesticides Analysis by GC-MS/MS

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Harvest/LOT ID: CS4015-BS9-2015

Batch# : CS4015-BS9-2015
Sampled : 04/07/20
Ordered : 04/07/20

Sample Size Received : 11 ml
Completed : 04/15/20 **Expires:** 04/15/21
Sample Method : SOP Client Method

Residual Solvents — PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm		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
PROPANE	120	ppm	5000	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Residual Solvents — PASSED

Analyzed by	Weight	Extraction date	Extracted By
850	0.0216g	04/14/20 12:04:41	584

Analysis Method - SOP.T.40.032
Analytical Batch - DA011651SOL
Reviewed On - 04/15/20 13:37:31
Instrument Used : DA-GCMS-003
Batch Date : 04/14/20 10:36:58

Reagent	Dilution	Consums. ID
	1	00279984 161291-1 24154107

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.30.032 Residual Solvents Analysis via GC-MS).

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Harvest/LOT ID: CS4015-BS9-2015
Batch# : CS4015-BS9-2015
Sampled : 04/07/20
Ordered : 04/07/20

Sample Size Received : 11 ml
Completed : 04/15/20 **Expires:** 04/15/21
Sample Method : SOP Client Method

Mycotoxins — PASSED

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 -DA011611 | Reviewed On - 04/14/20 16:31:18
Instrument Used : DA-LCMS-001_DER (MYC)
Batch Date : 04/13/20 09:37:30

Analyzed by	Weight	Extraction date	Extracted By
585	1g	04/13/20 04:04:20	585

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). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.

Microbials — PASSED

Analyte	Result
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.
ESCHERICHIA_COLI_SHIGELLA_SPP	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	not present in 1 gram.

Analysis Method -SOP.T.40.043
Analytical Batch -DA011599MIC | Reviewed On - 04/14/20 18:19:22
Instrument Used : PathogenDX PCR_Array Scanner DA-111,PathogenDX PCR_DA-171
Batch Date : 04/13/20 09:00:37

Analyzed by	Weight	Extraction date	Extracted By
513	0.9955g	04/13/20 09:04:26	1082

Reagent	Dilution	Consums. ID
012120.06		181019-274
101619.04		SG298A

Reagent	Reagent	Consums. ID
122719.32	022120.89	918C4-918J
022120.35	022120.155	914C4-914AK
022120.181	022120.156	929C6-929H
121719.97	022120.158	50AX26219
020420.368	022120.90	19323
022120.223		23819111
022120.275		190611634
022120.194		104867-12
013120.101		
013120.80		
013120.160		
022120.44		
022120.242		
022120.294		
022120.193		

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 — PASSED

Reagent	Reagent	Dilution	Consums. ID
040720.R10	041320.R02	50	106557-04-091619
041020.R13	041320.R01		
111319.05	033120.R12		
042020.R01			
041320.R04			
041320.R03			

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	1.5
CADMIUM	0.02	PPM	ND	0.5
LEAD	0.05	PPM	ND	0.5
MERCURY	0.02	PPM	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2507g	04/13/20 01:04:20	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA011608HEA | Reviewed On - 04/14/20 08:09:18
Instrument Used : DA-ICPMS-001
Batch Date : 04/13/20 09:11:53

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.

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