



# Certificate of Analysis

Jul 02, 2020 | Bardo Labs

2566 Pennsylvania Ave  
Sayre, NY, 18840, US

BARDO

Sample: DA00611006-001

Harvest/Lot ID: 1-C

Seed to Sale #n/a

Batch Date : N/A

Batch#: BD5

Sample Size Received: 10 gram

Retail Product Size: 10

Ordered : 06/05/20

Sampled : 06/05/20

Completed: 07/02/20 Expires: 07/02/21

Sampling Method: SOP Client Method

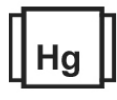
**PASSED**

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## PRODUCT IMAGE SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals  
Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**PASSED**



Moisture  
**PASSED**



Terpenes  
**NOT TESTED**

## MISC.

## CANNABINOID RESULTS



Total THC  
**4.557%**



Total CBD  
**81.942%**



Total Cannabinoids  
**91.455%**



Filtration

**PASSED**

Analyzed By 457 Weight 1g Extraction date NA LOD(ppm) NA Extracted By NA

Analysis Method -SOP.T.40.013 Batch Date : 06/11/20 07:51:07  
Analytical Batch -DA013081FIL Reviewed On - 06/11/20 11:24:48  
Instrument Used : Filtration/Foreign Material Microscope  
Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-28/T Stereo Microscope is used for inspection.



Water Activity

**PASSED**

Analyte Analyzed by Weight Ext. date LOD A.L Result  
WATER ACTIVITY 457 1g NA 0.1 aw 0.85aw 0.388 aW

Analysis Method -Water Activity SOP.T.40.010 Batch Date : 06/11/20 08:35:18  
Analytical Batch -DA013087WAT Reviewed On - 06/11/20 13:44:40  
Instrument Used : DA-028 Rotronic Hygropalm  
Running On :



Moisture

**PASSED**

Analyte Analyzed by Weight Ext. date LOD A.L Result  
MOISTURE CONTENT 457 1g NA 1 % 1.400 %

Analysis Method -Moisture Analysis SOP.T.40.011 Batch Date : 06/11/20 08:35:47  
Analytical Batch -DA013088MOI Reviewed On - 06/11/20 13:50:19  
Instrument Used : DA-003 Moisture Analyzer  
Running On :

## Cannabinoid Profile Test

Analyzed by 450 Weight 0.1165g Extraction date : 06/11/20 10:06:18 Extracted By : 965  
Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 06/12/20 10:12:32 Batch Date : 06/11/20 09:32:08  
Analytical Batch -DA013098POT Instrument Used : DA-LC-003 Running On :

Reagent	Dilution	Consumers ID
031820.R16	400	280678841
032320.R16		918C4-918J
061020.R15		914C4-914AK
061020.R14		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).

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 # CMTL-0002  
ISO Accreditation # 97164



Signature

09/28/2020

Signed On



# Certificate of Analysis

**PASSED**
**Bardo Labs**

2566 Pennsylvania Ave

Sayre, NY, 18840, US

**Telephone:** .

**Email:** erik@bardolabs.com

**Sample : DA00611006-001**
**Harvest/LOT ID: 1-C**
**Batch# :** BD5

**Sampled :** 06/05/20

**Ordered :** 06/05/20

**Sample Size Received :** 10 gram

**Completed :** 07/02/20 **Expires:** 07/02/21

**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	0.01	ppm	0.3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
ACEPHATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPOXUR	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
BOSCALID	0.01	PPM	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBARYL	0.05	ppm	0.5	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
DAMINOZIDE	0.01	ppm	0.1	ND	CHLORDANE *	0.01	PPM	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND	PARATHION-METHYL *	0.01	PPM	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND	CAPTAN *	0.025	PPM	3	ND
DIMETHOMORPH	0.02	ppm	3	ND	CHLORFENAPYR *	0.01	PPM	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	CYFLUTHRIN *	0.01	PPM	1	ND
ETOFENPROX	0.01	ppm	0.1	ND	CYPERMETHRIN *	0.01	PPM	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					
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					



## Pesticides

**PASSED**

<b>Analyzed by</b> 585 , 795	<b>Weight</b> 1.0421g	<b>Extraction date</b> 06/11/20 10:06:59	<b>Extracted By</b> 1665 , 795
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**Analysis Method -** SOP.T.30.065, SOP.T.40.065 ,  
 SOP.T.30.065, SOP.T40.070  
**Analytical Batch -** DA013094PES , DA013141VOL  
**Instrument Used :** DA-LCMS-001\_DER (PES) , DA-GCMS-001  
**Running On :**  
**Batch Date :** 06/11/20 09:16:46

**Reviewed On-** 06/11/20 11:24:48

Reagent	Dilution	Consums. ID
050820.04 061020.R20 061020.R21 060920.R17 061720.01	10	280678841 76262-590

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.T40.065 Procedure for Pesticide Quantification Using LCMS). \* Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.



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 Sayre, NY, 18840, US

**Telephone:**
**Email:** erik@bardolabs.com

**Sample : DA00611006-001**
**Harvest/LOT ID: 1-C**
**Batch# :** BD5

**Sampled :** 06/05/20


**Ordered :** 06/05/20

**Sample Size Received :** 10 gram

**Completed :** 07/02/20 **Expires:** 07/02/21

**Sample Method :** SOP Client Method

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	<b>Residual Solvents</b>	<b>PASSED</b>
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	<b>Residual Solvents</b>	<b>PASSED</b>
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
ETHANOL	500	ppm		PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by	Weight	Extraction date	Extracted By
850	0.0284g	06/30/20 03:06:18	850
<b>Analysis Method -SOP.T.40.032</b> <b>Analytical Batch -DA013466SOL</b> <b>Instrument Used : DA-GCMS-002</b> <b>Running On :</b> <b>Batch Date : 06/25/20 17:45:54</b>			
<b>Reviewed On - 07/01/20 16:26:53</b>			
Reagent	Dilution	Consums. ID	
	1	H2017.077	
		00279984	
		161291-1	

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.40.032 Residual Solvents Analysis via GC-MS).





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Sample : DA00611006-001

Harvest/LOT ID: 1-C

Batch# : BD5

Sampled : 06/05/20

Ordered : 06/05/20

Sample Size Received : 10 gram

Completed : 07/02/20 Expires: 07/02/21

Sample Method : SOP Client Method

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	<b>Microbials</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN G2	0.002	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN G1	0.002	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram.	AFLATOXIN B2	0.002	ppm	ND	0.02
ASPERGILLUS_TERREUS		not present in 1 gram.	AFLATOXIN B1	0.002	ppm	ND	0.02
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	OCHRATOXIN A+	0.002	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.					

Analysis Method -SOP.T.40.043 / SOP.T.40.044

Analytical Batch -DA013090MIC Batch Date : 06/11/20

Instrument Used : PathogenDX PCR\_Array Scanner DA-111

Running On :

Analyzed by	Weight	Extraction date	Extracted By
357	1.0486g	06/11/20	1082

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
101519.12	052720.74	052720.214	181019-274	50AX26219
050520.11	052720.75		SG298A	19323
052720.43	042920.229		181207119C	25219065
052720.48	052720.209		918C4-918J	190827060
052720.58	052720.163		914C4-914AK	
042920.303	042920.93		929C6-929H	

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.

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

Analytical Batch -DA013095MYC | Reviewed On - 06/16/20 10:26:08

Instrument Used : DA-LCMS-001\_DER (MYC)

Running On :

Batch Date : 06/11/20 09:17:59

Analyzed by	Weight	Extraction date	Extracted By
585	1g	06/11/20 04:06:40	585

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Reagent	Dilution	Consums. ID
051820.R24	060420.R01	100	89401-566
061020.R12	061020.R13		
030920.02	060120.R01		
060820.R01	060920.R02		
060820.R02			
052020.R14			

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	0.2453g	06/11/20 11:06:45	1022

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

Analytical Batch -DA013085HEA | Reviewed On - 06/12/20 08:20:09

Instrument Used : DA-ICPMS-001

Running On :

Batch Date : 06/11/20 08:13:50

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.