

CS0449 212005-003 C

Cannabinoids

Client Sample ID: 6004194-002

Humble Lemon 33.3 mg/mL

Blackbriar Regulatory Services, LLC

820 Southlake Blvd. Richmond, VA 23236

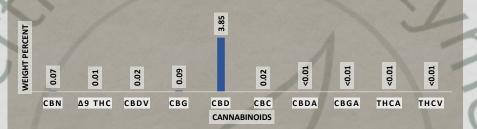
Receive sample: 06-Jan-21 Initiate analyses: 06-Jan-21

Sample Description:

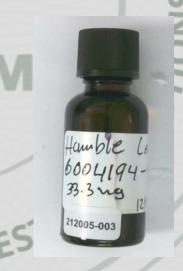
Analyst:	Analyst Signature:	Analyst Date:
Kara Pierce	Kara Pierce	Jan 22, 2021
Reviewed by:	Reviewer Signature:	Reviewer Date:
Tonya Powell	Jones Towell	Jan 22, 2021

Test Type: Total Cannabinoid Profile Technical Procedure: TP A0033 & A0049

Results:



Cannabinoid	MoU (+/-)	% Weight	Concentration (mg/mL)
CBN	0.0027	0.07	0.64
Δ9 ТНС	0.0005	0.01	0.12
CBDV	0.0006	0.02	0.14
CBG	0.0036	0.09	0.85
CBD	0.154	3.85	36.95
СВС	0.0006	0.02	0.15
CBDA	NA	<0.01	<0.096
CBGA	NA	<0.01	<0.096
THCA	NA	<0.01	<0.096
THCV	NA	<0.01	<0.096
	* total THC	0.01	0.12
	* total CBD	3.85	36.95
	* total CBG	0.09	0.85
	total	4.05	38.85
	ra	tio: Total CBD/THC	320.8



density = 0.96

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MoU "measurement of uncertainty"

Concentration of cannabinoids were determined by Shimadzu LC2030 Plus with an Avazyme intra lab validated method utilizing certified reference standards for each chemical analyzed.

The result applies only to the sample listed on this certificate. Avazyme cannot guarantee that this sample is representative of the product/lot as a whole. Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols for the sample submitted.

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CS0449_212005-003_HM

Heavy Metals

Client Sample ID: 6004194-002

Sample Description: Humble Lemon 33.3 mg/mL

Receive sample: 06-Jan-21 Initiate analyses: 11-Jan-21

Blackbriar Regulatory Services

820 Southlake Blvd Richmond, VA 23236

Analyst: Helen Goudreau	Analyst Signature: Mll Lowbu	Analyst Date: Jan 22, 2021
Reviewed by: Tia Young	Reviewer Signature: Jia Wood	Reviewer Date: Jan 22, 2021

Test Type: Heavy Metal Content Technical Procedure: A0036-01

Results:



Chemical Analyzed	Concentration (μg/g)
Arsenic (As 75)	0.002
Cadmium (Cd 111)	<0.001
Cadmium (Cd 114)	<0.001
Mercury (Hg 200)	<0.001
Mercury (Hg 202)	<0.001
Lead (Pb 206)	<0.001
Lead (Pb 207)	<0.001
Lead (Pb 208)	<0.001



Concentration of metals was determined by ICP-MS with an Avazyme method utilizing certified reference standards for each chemical analyzed.

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Mycotoxins

6004194-002 **Client Sample ID:**

CS0449 **Blackbriar Regulatory Services, LLC**

Humble Lemon 33.3 mg/mL **Sample Description:** 06-Jan-21

820 Southlake Blvd.

Receive sample: Initiate analyses: 08-Jan-21

Moniliformin

Ochratoxin A Fusarenone X

T2

Richmond, VA 23236

Analyst: Signature: Jacob Edwards

Date: Jan 22, 2021

Reviewed by:

Signature: Harris Middlesworth

Date: Jan 22, 2021

Analysis requested: Analysis of concentration of mycotoxins in customer supplied material

ND

ND ND

ND

Results:

Mycotoxin	Concentration Detected	Mycotoxin	Concentration Detected
B1 Fumonisin	ND	Cytochalasin J	ND
B2 Fumonisin	ND	Cytochalasin H	ND
15-Acetyl-DON	ND	19,20-Epoxycytochalasin C	ND
3-Acetyl-DON	ND	19,20-Epoxycytochalasin D	ND
Deoxynivalenol	ND	Chaetoglobosin A	ND
Nivalenol	ND	Dihydrocytochalasin B	ND
Cytochalasin B	ND	Neosolaniol	ND
Cytochalasin D	ND	Monoacetoxyscirpenol	ND
Cytochalasin A	ND	HT2-Toxin	ND
Cytochalasin E	ND	Ochratoxin B	ND
Cytochalasin C	ND	Alternariol	ND
Aflatoxin G2	ND	Alternariol ME	ND
Aflatoxin G1	ND	Sterigmatocystin	ND
Aflatoxin B1	ND	T2-Tetraol	ND
Aflatoxin B2	ND	ppb = ng/g, ND= No	ot Detected Above
Zearalenone	ND		-
Tenuazonic Acid	ND		
Diacetoxyscirpenol	ND	-	- 8
	W		

Above LOQ (10ppb)





Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS CS0449_212005-003_P

Client Sample ID: 6004194-002

Sample Description: Humble Lemon 33.3 mg/mL

Received sample: 06-Jan-21 Initiated analyses: 07-Jan-21

Pesticides

Blackbriar Regulatory Services, LLC

820 Southlake Blvd. Richmond, VA 23236

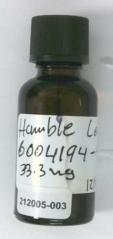
Analyst: Harris Middlesworth	Signature:	finis ~	Date: Jan 22, 2021
Reviewed by: Caroline Vieregge	Signature:	igrunge	Date: Jan 25, 2021

Analysis of concentration (conc.) of Pesticides in customer supplied material with UHPLC-MS/MS.

Results

Pesticide	Concentration (ppb)	
NO PESTICIDE DETECTED	None*	

AVAZYME



^{*} None = not detected at or above the LOQ (limit of quantitation); LOQs on pages 2 and 3

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CS0449 212005-003 P

6004194-002 **Client Sample ID:**

Sample Description: Humble Lemon 33.3 mg/mL

Pesticides in the method and the limits of quantitation (LOQ)

Pesticides

Blackbriar Regulatory Services, LLC 820 Southlake Blvd. Richmond, VA 23236

	Lico		Loc		Loc)	Lina
Pesticide	LOQ	Pesticide	LOQ	Pesticide	LOQ	Pesticide	LOQ
	ppb		ppb		ppb		ppb
2,4-D	10	Carbofuran	10	Dimethomorph II	10	Fludioxonil	10
3-hydroxycarbofuran	30	Carboxin	10	Dimoxystrobin	10	Flufenacet	10
6-Benzylaminopurine	10	Carfentrazone-ethyl	100	Diniconazole	30	Flufenoxuron	10
Acephate	10	Chlorantraniliprole	10	Dinotefuran	10	Flumetralin	10
Acequinocyl	100	Chlorfenapyr	10	Dioxacarb	10	Flumioxazin	300
Acetamiprid	10	Chlorfluazuron	100	Diuron	10	Fluometuron	10
Acibenzolar-S-methyl	30	Chlorothalonil	10	Emamectin B1a	10	Fluopyram	10
Aldicarb	300	Chlorotoluron	10	Endosulfan sulfate	100	Fluoxastrobin	10
Aldicarb Sulfone	10	Chloroxuron	10	Epoxiconazole	10	Fluquinconazole	10
Aldicarb Sulfoxide	10	Chlorpyrifos	10	Eprinomectin	100	Fluridone	10
Allethrin	30	Cinerin I	300	Etaconazole I	10	Flusilazole	10
Ametryn	10	Cinerin II	300	Etaconazole II	10	Flutolanil	10
Aminocarb	10	Clethodim I	100	Ethiofencarb	10	Flutraifol	10
Aminopyralid	30	Clethodim II	30	Ethiprole	10	Fluxapyroxad	10
Amitraz	30	Clofentazine	10	Ethirimol	10	Fomesafen	10
Atrazine	10	Clomazone	10	Ethoprophos	10	Forchlorfenuron	10
Azadirachtin	10	Clothianidin	10	Etofenprox	10	Formetanate	10
Azoxystrobin	10	Coumaphos	10	Etoxazole	10	Fuberdiazole	10
Benalaxyl	10	Cyazofamid	10	Etridiazole	30	Furalaxyl	10
Bendiocarb	10	Cycluron	10	Fenamidone	10	Furathiocarb	10
Benzovindiflupyr	10	Cymoxanil	30	Fenarimol	10	Hexaconazole	10
Benzoximate	300	Cypermethrin	300	Fenazaquin	10	Hexaflumuron	10
Bifenazate	30	Cyproconazole I	10	Fenbuconazole	10	Hexythiazox	10
Bifenthrin	100	Cyproconazole II	10	Fenhexamid	10	Imazalil	10
Bitertanol	100	Cyprodinil	10	Fenobucarb	10	Imidacloprid	10
Boscalid	10	Cyromazine	10	Fenoxycarb	10	Indoxacarb	10
Bromuconazole I	10	Daminozide	300	Fenpropimorph	10	Ipconazole	10
Bromuconazole II	10	Deltamethrin	100	Fenpyroximate	10	Iprodione	30
Bupirimate	10	Desmedipham	10	Fensulfothion	10	Iprovalicarb	30
Buprofezin	10	Diazinon	10	Fenthion	10	Isoprocarb	10
Butafenacil	10	Dichlorvos	10	Fenuron	10	Isoproturon	10
Butocarboxim	30	Dicrotophos	10	Fipronil	10	Jasmolin I	10
Butoxycarboxim	10	Diethofencarb	10	Fipronil Desulfinyl	10	Jasmolin II	10
Captan	30	Difenoconazole	10	Fipronil Sulfone	10	Kinoprene	300
Carbaryl	10	Diflubenzuron	10	Flonicamid	10	Kresoxym-methyl	30
Carbendazim	10	Dimethoate	10	Fluazifop	10	Linuron	10
Carbetamide	10	Dimethomorph I	10	Fluazinam	10	Lufenuron	10

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Page 2 of 3



CS0449_212005-003_P

Client Sample ID: 6004194-002

Sample Description: Humble Lemon 33.3 mg/mL

Pesticides in the method and the limits of quantitation (LOQ)

Pesticides

Pesticide

Vamidothion

Zoxamide

Blackbriar Regulatory Services, LLC 820 Southlake Blvd. Richmond, VA 23236

LOQ

ppb

10

10

					W
Pesticide	LOQ	Pesticide	LOQ	Pesticide	LOQ
Pesticide	ppb	resticide	ppb	resticide	ppb
Malathion	10	Oxathiapiprolin	10	Spinetoram L	10
Mandipropamid	10	Paclobutrazol	10	Spinosyn A	10
Mefenacet	10	Penconazole	10	Spinosyn D	10
Mepanipyrim	10	Pencycuron	10	Spirodiclofen	10
Mepronil	10	Pentachloronitrobenzene	10	Spiromesifen	300
Mesotrione	30	Permethrin	30	Spirotetramat	10
Metaflumizone	10	Phenothrin	30	Spiroxamine I	10
Metalaxyl	10	Phosmet	10	Spiroxamine II	10
Metconazole	10	Picoxystrobin	10	Sulfentrazone	10
Methabenzthiazuron	10	Piperonyl Butoxide	10	Tebuconazole	10
Methamidophos	30	Pirimicarb	10	Tebufenozide	10
Methiocarb	10	Prallethrin	10	Tebufenpyrad	10
Methiocarb Sulfone	100	Prochloraz	10	Tebuthiuron	10
Methiocarb Sulfoxide	10	Procymidone	300	Teflubenzuron	10
Methomyl	10	Promecarb	10	Tembotrione	10
Methoprotryne	10	Prometon	10	Temephos	10
Methoxyfenozide	10	Prometryne	10	Terbumeton	10
Methyl parathion	30	Propargite	30	Terbutryn	10
Metobromuron	10	Propham	100	Tetrachlorvinphos	10
Metolachlor	10	Propiconazole	10	Tetraconazole	10
Metribuzin	30	Propoxur	10	Tetramethrin I	100
Mevinphos I	10	Prothioconazole	100	Tetramethrin II	100
Mevinphos II	10	Pymetrozine	10	Thiabendazole	
Mexacarbate	10	Pyracarbolid	10	Thiacloprid	10
MGK-264 I	30	Pyraclostrobin	10	Thiamethoxam	10
MGK-264 II	30	Pyrethrin I	30	Thidiazuron	10
Monocrotophos	10	Pyrethrin II	100	Thiencarbazone-Methyl	10
Monolinuron	10	Pyridaben	10	Thiobencarb	10
Myclobutanil	10	Pyrimethanil	300	Thiophanate-methyl	10
Naled	300	Pyriproxyfen	10	Triadimefon	30
Neburon	10	Quinoxyfen	10	Triadimenol	30
Nitenpyram	10	Resmethrin	10	Trichlorfon	10
Novaluron	10	Rotenone	10	Tricyclazole	10
Nuarimol	300	Secbumeton	10	Trifloxystrobin	10
Omethoate	10	Siduron	10	Triflumizole	
Oxadixyl	10	Simetryn	10	Triflumuron	
Oxamyl	10	Spinetoram J	10	Triticonazole	

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CS0449_212005-003_RS

Residual Solvents

Client Sample ID: 6004194-002

Sample Description: Humble Lemon 33.3 mg/mL

Receive sample: 06-Jan-21 Initiate analyses: 12-Jan-21

Blackbriar Regulatory Services, LLC 820 Southlake Blvd.

Richmond, VA 23236

Analyst: Daren Stephens	Analyst Signature:	Analyst Date: Feb 1, 2021
Reviewed by: Tia Young	Reviewer Signature: Jia Vod	Reviewer Date: Feb 1, 2021

Test Type: Residual Solvents Technical Procedure: TP A0040

Results:



Chemical Analyzed	Concentration (ppm)	Low Quantitation Limit (ppm)
Propane	ND	5.00
n-Butane	ND	2.50
Isobutane	ND	2.50
Neopentane	ND	1.67
Methanol	ND	5.00
Ethylene oxide	ND	5.00
2-Methylbutane	ND	1.67
n-Pentane	ND	1.67
Ethanol	2551	5.00
Diethyl ether	ND	5.00
Acetone	ND	5.00
1,1-Dichloroethene	ND	5.00
Isopropanol	ND	5.00
2,2-Dimethylbutane	ND	1.00
2,3-Dimethylbutane	ND	1.00
Methylene chloride	ND	5.00
2-Methylpentane	ND	1.00
Acetonitrile	ND	20.0
3-Methylpentane	ND	1.00
n-Hexane	ND	1.00
Ethyl acetate	ND	5.00
Tetrahydrofuran	ND	5.00
Chloroform	ND	0.05
Cyclohexane	ND	5.00
Benzene	ND	0.05
1,2-Dichloroethane	ND	5.00
Isopropyl acetate	ND	5.00
n-Heptane	<5.00	5.00
Trichloroethene	ND	5.00
1,4-Dioxane	ND	5.00
Toluene	ND	5.00
Ethylbenzene	ND	1.25
m-Xylene/p-Xylene	ND	2.50
o-Xylene	ND	1.25
Cumene	ND	5.00

ND: Not Detected

Present: matched to NIST database, not confirmed by reference standard Confirmed: present and identified by comparison to reference standard



Concentrations were determined by GC-MS with an Avazyme method utilizing certified reference standards for each chemical analyzed.

Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols.

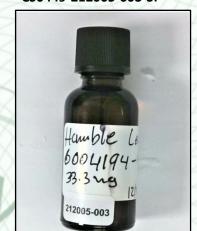
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Standard Pathogen Panel



CERTIFICATE OF ANALYSIS # CS0449-212005-003-SP



Sponsor Sample ID: 6004194-002

Sample Description: Humble Lemon 33.3 mg/ml

Company Name: Blackbriar Regulatory Services, LLC

Address Line 1: 820 Southlake Blvd

Address Line 2: Richmond, VA 23236

Date Received: 06-Jan-21

Analyses Initiated: 06-Jan-21

Analyst: Brooke Brannen	Analyst Signature: Brooke Brannen (Jan 20, 2021 16:45 EST)	Analyst Date:	Jan 20, 2021
Reviewer: Jen Heath	Reviewer Signature: Quilland	Reviewer Date:	Jan 20, 2021

Initial Tests:

Test Name (AOAC Method Identification*)	Test Results (CFU/g)	Comments	
E. coli (AOAC 991.14)	<10	None.	
Coliform Count (AOAC 991.14)	<10	None.	
Enterobacteriaceae Count (AOAC 2003.01)	<10	None.	
S. aureus Count (AOAC 2003.11)	<10	None.	
Yeast Count (AOAC 2014.05)	<10	None.	
Mold Count (AOAC 2014.05)	<10	None.	

^{*}AOAC Number is a standard identification number that identifies the testing medium used.

Test Name (Method Identification)	Test Results	Comments	
Listeria (FDA BAM Chapter 10)	Negative	No secondary testing required.	

Secondary Tests:

Test Name (Method Identification)	Test Status	Test Results
E. coli Confirmation (FDA BAM Ch. 4/4a ; API 20E Serological Confirmation)	Not Required	N/A
Salmonella Confirmation (AOAC 2014.01)	Not Required	N/A
Listeria Confirmation (FDA BAM Ch. 10 ; API Listeria – Serological Confirmation)	Not Required	N/A

All microbiology test systems are validated on the day of use with appropriate positive and negative controls. Avazyme cannot warrant the absolute negative presence of any microorganism, only attest that the test was carried out via appropriate methods and shows a negative result.

Testing was performed according to established AOAC, BAM, and API methods. Using these methods, none of the following organisms were detected at or above our limit of detection:

Listeria monocytogenes, E. coli O157:H7, Staphylococcus aureus, and Salmonella enterica.

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