AVAZYME

Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

Cannabinoids

CS0449_212080-001_C

Client Sample ID: 6004174-004

Sample Description: Humble White Grape 33.3mg/ml

[redacted]

Receive sample: 03-Feb-21

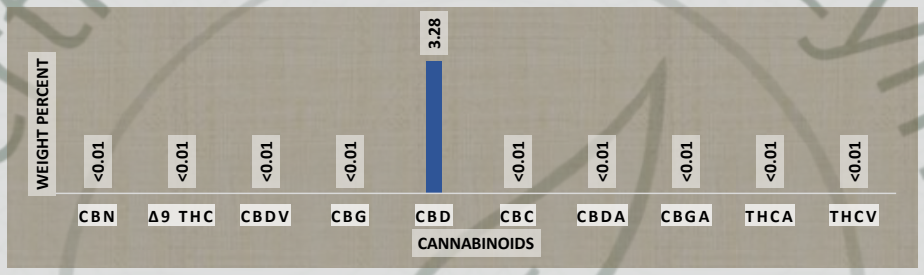
Initiate analyses: 04-Feb-21

Analyst:	Analyst Signature:	Analyst Date:
Tonya Powell	Tonya Powell	Feb 8, 2021
Reviewed by: Kara Pierce	**Reviewer Signature:** Kara Pierce (Feb 8, 2021 16:25 EST)	**Reviewer Date:** Feb 8, 2021

Test Type: Total Cannabinoid Profile

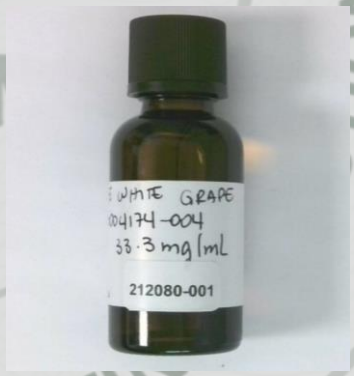
Technical Procedure: TP A0033 & A0049

Results:



Cannabinoid	MoU (+/-)	% Weight	Concentration (mg/mL)
CBN	NA	<0.01	<0.097
Δ9 THC	NA	<0.01	<0.097
CBDV	NA	<0.01	<0.097
CBG	NA	<0.01	<0.097
CBD	0.131	3.28	31.84
CBC	NA	<0.01	<0.097
CBDA	NA	<0.01	<0.097
CBGA	NA	<0.01	<0.097
THCA	NA	<0.01	<0.097
THCV	NA	<0.01	<0.097
*** total THC**		**<0.01**	**<0.097**
*** total CBD**		**3.28**	**31.84**
*** total CBG**		**<0.01**	**<0.097**
total		**3.28**	**31.84**
ratio: Total CBD/THC			**NA**

density = 0.97



* total THC is calculated by Δ9 THC + 0.877xTHCA *total CBD is calculated by CBD + 0.877xCBDA

*total CBG is calculated by CBG + 0.878xCBGA

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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.

Avazyme is not responsible for Sponsor's use of the information or concepts generated as part of the study, and will not be liable for any loss or damage resulting from such use.

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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

Heavy Metals

CS0449_212080-001_HM

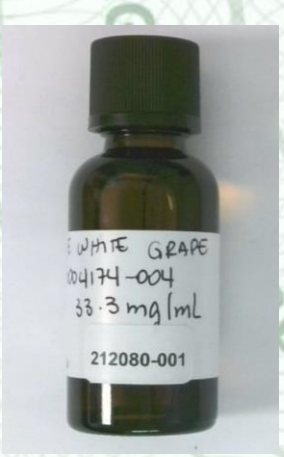
[redacted]

Client Sample ID: 6004174-004
Sample Description: Humble White Grape 33.3mg/ml
Receive sample: 03-Feb-21
Initiate analyses: 08-Feb-21

Analyst: Kara Pierce	**Analyst Signature:** Kara Pierce (Feb 10, 2021 11:54 EST)	**Analyst Date:** Feb 10, 2021
Reviewed by: Tia Young	**Reviewer Signature:** Tia Young	**Reviewer Date:** Feb 10, 2021

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

Results:



Chemical Analyzed	Concentration (µg/g)
Arsenic (As 75)	0.004
Cadmium (Cd 111)	<0.001
Cadmium (Cd 114)	<0.001
Mercury (Hg 200)	0.015
Mercury (Hg 202)	0.016
Lead (Pb 206)	0.003
Lead (Pb 207)	0.003
Lead (Pb 208)	0.003

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Concentration of metals was determined by ICP-MS with an Avazyme method utilizing certified reference standards for each chemical analyzed.
The result applies to the sample listed on this certificate. Avazyme cannot guarantee 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.
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CERTIFICATE OF ANALYSIS

Residual Solvents

CS0449_212080-001_RS

Client Sample ID: 6004174-004
Sample Description: Humble White Grape 33.3mg/ml
Receive sample: 03-Feb-21
Initiate analyses: 09-Feb-21

[redacted]

Analyst: Daren Stephens	Analyst Signature:	Analyst Date: Feb 16, 2021
Reviewed by: Tia Young	Reviewer Signature:	Reviewer Date: Feb 16, 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	<1.67	1.67
Ethanol	3720	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	5.00
3-Methylpentane	ND	1.00
n-Hexane	ND	1.00
Ethyl acetate	258	5.00
Tetrahydrofuran	ND	5.00
Chloroform	ND	0.20
Cyclohexane	ND	5.00
Benzene	ND	0.05
1,2-Dichloroethane	ND	5.00
Isopropyl acetate	ND	5.00
n-Heptane	ND	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

PJLA Testing
ISO/IEC 17025:2017
Accreditation # 101161

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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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS
CS0449_212080-001_M

Mycotoxins

Client Sample ID: 6004174-004 CS0449

Sample Description: Humble White Grape 33.3mg/ml [redacted]

Receive sample: 3-Feb-21 [redacted]

Initiate analyses: 9-Feb-21 [redacted]

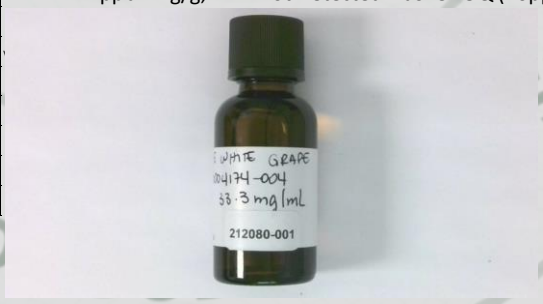
Analyst: Jacob Edwards	**Signature:** Jacob Edwards (Feb 16, 2021 13:02 EST)	**Date:** Feb 16, 2021
Reviewed by: Harris Middlesworth	**Signature:**	**Date:** Feb 16, 2021

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

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		
Zearalenone	ND		
Tenuazonic Acid	ND		
Diacetoxyscirpenol	ND		
Moniliformin	ND		
T2	ND		
Ochratoxin A	ND		
Fusarenone X	ND		

ppb = ng/g, ND= Not Detected Above LOQ (10ppb)



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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0449_212080-001_P

Pesticides

[redacted]

Client Sample ID: 6004174-004

Sample Description Humble White Grape 33.3mg/ml

Received sample: 3-Feb-21

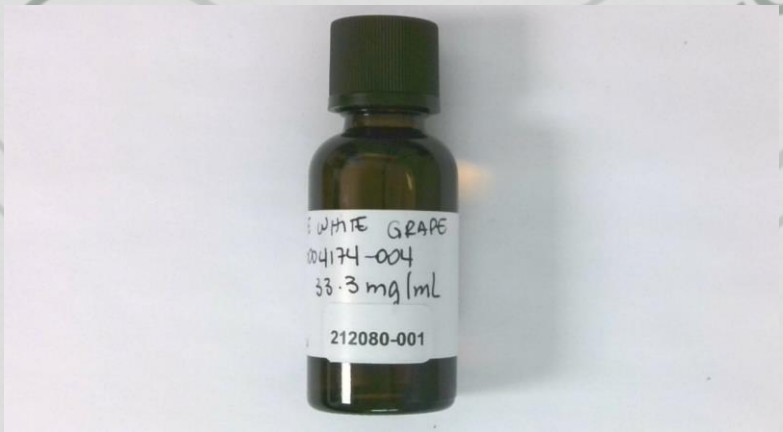
Initiated analyses: 8-Feb-21

Analyst: Harris Middlesworth	Signature:	Date: Feb 9, 2021
Reviewed Caroline Vieregge	Signature:	Date: Feb 9, 2021

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

Results

Pesticide	Concentration (ppb)
NO PESTICIDE DETECTED	None*



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

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PJLA Testing ISO/IEC 17025:2017 Accreditation # 101161

Χαρολινε σιεργεγγε

Απαζωμεπεστιγιδε

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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0449_212080-001_P

Pesticides

[redacted]

Client Sample ID: 6004174-004

Sample Description: Humble White Grape 33.3mg/ml

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

Pesticide	LOQ ppb	Pesticide	LOQ ppb	Pesticide	LOQ ppb	Pesticide	LOQ ppb
2,4-D	10	Cadusafos	10	Dichlorvos	30	Fenobucarb	30
3-hydroxycarbofuran	10	Captan	10	Diclofop	10	Fenoxaprop-P-ethyl	10
6-Benzylaminopurine	10	Carbaryl	10	Dicrotophos	10	Fenoxycarb	10
Abamectin B1a	300	Carbendazim	10	Diethofencarb	10	Fenpropimorph	10
Acephate	30	Carbetamide	10	Difenoconazole	10	Fenpyroximate	10
Acequinocyl	30	Carbofuran	10	Diflubenzuron	10	Fensulfothion	10
Acetamiprid	10	Carbosulfan	10	Diflufenican	10	Fenthion	30
Acibenzolar-S-methyl	30	Carboxin	10	Dimethenamid-P	10	Fenuron	10
Aldicarb	300	Carfentrazone-ethyl	30	Dimethoate	10	Fipronil	10
Aldicarb Sulfone	10	Chlorantraniliprole	10	Dimethomorph I	10	Fipronil Desulfinyl	10
Aldicarb Sulfoxide	10	Chlorfenapyr	10	Dimethomorph II	10	Fipronil Sulfone	10
Allethrin	10	Chlorfluazuron	30	Dimoxystrobin	10	Flonicamid	10
Ametryn	10	Chlorothalonil	10	Diniconazole	10	Fluazifop	10
Aminocarb	10	Chlorotoluron	10	Dinotefuran	30	Fluazinam	10
Aminopyralid	100	Chloroxuron	10	Dioxacarb	10	Flucythrinate	10
Amitraz	30	Chlorpyrifos	10	Diuron	10	Fludioxonil	10
Atrazine	10	Cinerin I	10	Emamectin B1a	10	Flufenacet	10
Azadirachtin	10	Cinerin II	10	Endosulfan sulfate	10	Flufenoxuron	10
Azoxystrobin	10	Clethodim I	30	Epoxiconazole	10	Flumetralin	100
Benalaxyl	10	Clethodim II	10	Eprinomectin	30	Flumioxazin	100
Bendiocarb	10	Clofentazine	10	Etaconazole I	10	Fluometuron	10
Bentazon	10	Clomazone	10	Etaconazole II	10	Fluopyram	10
Benzovindiflupyr	10	Clothianidin	10	Ethiofencarb	10	Fluoxastrobin	10
Benzoximate	30	Coumaphos	10	Ethiprole	10	Fluquinconazole	10
Bifenazate	100	Cyazofamid	10	Ethirimol	10	Fluridone	10
Bifenthrin	30	Cycluron	10	Ethoprophos	10	Flurochloridone	30
Biteranol	10	Cymoxanil	100	Etofenprox	10	Fluroxypyr-meptyl	10
Bitertanol	10	Cypermethrin	100	Etoxazole	10	Flusilazole	10
Boscalid	10	Cyproconazole I	10	Etridiazole	300	Flusilazole	10
Bromacil	10	Cyproconazole II	10	Etrimfos	10	Flutolanil	10
Bromuconazole I	10	Cyprodinil	30	Fenamidone	10	Flutraifol	10
Bromuconazole II	10	Cyromazine	10	Fenamiphos Sulfone	10	Fluxapyroxad	10
Bupirimate	10	Daminozide	300	Fenamiphos Sulfoxide	10	Fomesafen	10
Buprofezin	10	Deltamethrin	10	Fenarimol	10	Forchlorfenuron	10
Butafenacil	10	Desmedipham	10	Fenazaquin	30	Formetanate	10
Butocarboxim	30	Diafenthiuron	10	Fenbuconazole	10	Fuberdiazole	10
Butoxycarboxim	30	Diazinon	10	Fenhexamid	10	Furalaxyl	10

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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0449_212080-001_P

Pesticides

[redacted]

Client Sample ID: 6004174-004

Sample Description: Humble White Grape 33.3mg/ml

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

Pesticide	LOQ ppb	Pesticide	LOQ ppb	Pesticide	LOQ ppb	Pesticide	LOQ ppb
Furathiocarb	10	Methoxyfenozide	10	Prometon	10	Sufloxaflor	10
Haloxyfop-methyl	10	Methyl parathion	10	Prometryne	10	Sulfentrazone	10
Hexaconazole	10	Metobromuron	10	Propamocarb	10	Tebuconazole	10
Hexaflumuron	10	Metolachlor	10	Propargite	30	Tebufenozide	10
Hexythiazox	10	Metominostrobin	10	Propham	100	Tebufenpyrad	10
Imazalil	10	Metribuzin	10	Propiconazole	10	Tebuthiuron	10
Imidacloprid	10	Mevinphos I	10	Propoxur	10	Teflubenzuron	10
Indoxacarb	10	Mevinphos II	10	Proquinazid	10	Tembotrione	30
Ipconazole	10	Mexacarbate	10	Prothioconazole	300	Temephos	10
Iprodione	300	MGK-264 I	100	Pymetrozine	10	Terbumeton	10
Iprovalicarb	10	MGK-264 II	100	Pyracarbolid	10	Terbutryn	10
Isoprocarb	10	Monocrotophos	10	Pyraclostrobin	10	Tetrachlorvinphos	10
Isoproturon	10	Monolinuron	10	Pyraflufen-ethyl	10	Tetraconazole	10
Ivermectin	300	Myclobutanil	10	Pyrethrin I	10	Tetramethrin I	100
Jasmolin I	10	Naled	300	Pyrethrin II	10	Tetramethrin II	100
Jasmolin II	10	Neburon	10	Pyridaben	10	Thiabendazole	10
Kresoxym-methyl	100	Nitenpyram	10	Pyridalyl	10	Thiacloprid	10
Linuron	10	Novaluron	10	Pyrimethanil	300	Thiamethoxam	10
Lufenuron	10	Nuarimol	100	Pyrimidifen	10	Thidiazuron	10
Malathion	10	Omethoate	10	Pyriproxyfen	10	Thiencarbazone-Methyl	30
Malathion-O-analog	10	Oxadiargyl	30	Quinoxyfen	10	Thiobencarb	10
Mandipropamid	10	Oxadixyl	10	Resmethrin	10	Thiodicarb	10
Mefenacet	10	Oxamyl	10	Rimsulfuron	10	Thiophanate-methyl	10
Mepanipyrim	10	Oxathiapiprolin	30	Rotenone	10	Triadimefon	10
Mepronil	10	Paclobutrazol	10	Secbumeton	10	Triadimenol	10
Mesotrione	300	Penconazole	10	Siduron	10	Triasulfuron	10
Metaflumizone	10	Pencycuron	10	Simazine	10	Triasulfuron	10
Metalaxyl	10	Pentachloronitrobenzene	10	Simetryn	10	Trichlorfon	10
Metamitron	10	Permethrin	10	Spinetoram J	10	Tricyclazole	10
Metconazole	10	Phenothrin	30	Spinetoram L	30	Trifloxystrobin	10
Metconazole	10	Phosmet	10	Spinosyn A	10	Triflumizole	10
Methabenzthiazuron	10	Picoxystrobin	10	Spinosyn D	10	Triflumuron	10
Methamidophos	30	Piperonyl Butoxide	10	Spirodiclofen	10	Triticonazole	10
Methiocarb	10	Pirimicarb	10	Spiromesifen	300	Uniconazole	10
Methiocarb Sulfoxide	10	Prallethrin	10	Spirotetramat	10	Vamidothion	10
Methomyl	10	Prochloraz	10	Spiroxamine I	10	Zoxamide	10
Methoprotryne	10	Promecarb	10	Spiroxamine II	10		

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Standard Pathogen Panel

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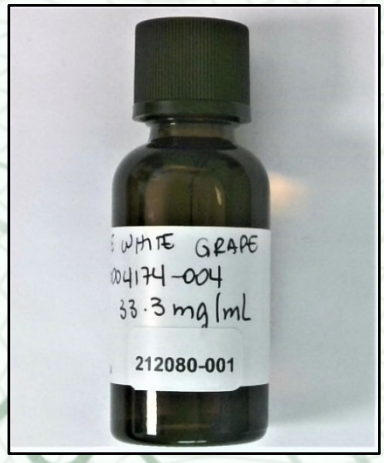
CERTIFICATE OF ANALYSIS # CS0449-212080-001-SP



Sponsor Sample ID: 6004174-004

Sample Description: Humble White Grape 33.3 mg/ml

Company Name: [redacted]

Address Line 1: [redacted]

Address Line 2: [redacted]

Date Received: 03-Feb-21

Analyses Initiated: 08-Feb-21

Analyst: Brooke Brannen	Analyst Signature: Brooke Brannen	Analyst Date:	Feb 18, 2021
Reviewer: Jen Heath	Reviewer Signature:	Reviewer Date:	Feb 18, 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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