



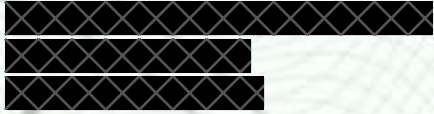
Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

Heavy Metals

CS0449_212041-001_HM

Client Sample ID: 6004209-002
Sample Description: Humble Berry Blast 16.6mg/ml
Receive sample: 20-Jan-21
Initiate analyses: 22-Jan-21



| | | |
|--------------------------------|---|--------------------------------|
| Analyst: Tia Young | Analyst Signature: <i>Tia Young</i> | Analyst Date: Jan 27, 2021 |
| Reviewed by: Helen Goudreau | Reviewer Signature: <i>Helen Goudreau</i> | Reviewer Date: Jan 27, 2021 |

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

Results:

| Chemical Analyzed | Concentration (µg/g) |
|-------------------|----------------------|
| Arsenic (As 75) | 0.003 |
| Cadmium (Cd 111) | <0.001 |
| Cadmium (Cd 114) | 0.001 |
| Mercury (Hg 200) | <0.001 |
| Mercury (Hg 202) | <0.001 |
| Lead (Pb 206) | 0.018 |
| Lead (Pb 207) | 0.017 |
| Lead (Pb 208) | 0.017 |



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. 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.

AVAZYME
 Agriculture and Food Testing Solutions
CERTIFICATE OF ANALYSIS
 CS0449_212041-001_P

Pesticides

Client Sample ID: 6004209-002

Sample Description: Humble Berry Blast 16.6mg/ml

Received sample: 20-Jan-21

Initiated analyses: 22-Jan-21



| | | |
|-----------------------------------|-------------------------------|-----------------------|
| Analyst: Harris Middlesworth | Signature: <i>[Signature]</i> | Date: Jan 22, 2021 |
| Reviewed by: Caroline Vieregge | Signature: <i>[Signature]</i> | Date: Jan 22, 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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CERTIFICATE OF ANALYSIS
CS0449_212041-001_P

Pesticides

Client Sample ID: 6004209-002

Sample Description: Humble Berry Blast 16.6mg/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 | Carbetamide | 10 | Dimethomorph I | 10 | Fluazifop | 10 |
| 3-hydroxycarbofuran | 10 | Carbofuran | 10 | Dimethomorph II | 10 | Fluazinam | 10 |
| 6-Benzylaminopurine | 10 | Carboxin | 10 | Dimoxystrobin | 10 | Fludioxonil | 10 |
| Abamectin B1a | 300 | Carfentrazone-ethyl | 10 | Diniconazole | 10 | Flufenacet | 10 |
| Acephate | 10 | Chlorantraniliprole | 10 | Dinotefuran | 10 | Flufenoxuron | 10 |
| Acequinocyl | 30 | Chlorfenapyr | 10 | Dioxacarb | 10 | Flumetralin | 10 |
| Acetamiprid | 10 | Chlorfluaazuron | 10 | Diuron | 10 | Flumioxazin | 30 |
| Acibenzolar-S-methyl | 30 | Chlorothalonil | 10 | Doramectin | 300 | Fluometuron | 10 |
| Aldicarb | 300 | Chlorotoluron | 10 | Emamectin B1a | 10 | Fluopyram | 10 |
| Aldicarb Sulfone | 10 | Chloroxuron | 10 | Endosulfan sulfate | 10 | Fluoxastrobin | 10 |
| Aldicarb Sulfoxide | 10 | Chlorpyrifos | 10 | Epoxiconazole | 10 | Fluquinconazole | 10 |
| Allethrin | 10 | Cinerin I | 300 | Eprinomectin | 10 | Fluridone | 10 |
| Ametryn | 10 | Cinerin II | 300 | Etaconazole I | 10 | Flusilazole | 10 |
| Aminocarb | 10 | Clethodim I | 10 | Etaconazole II | 10 | Flutolanil | 10 |
| Aminopyralid | 30 | Clethodim II | 10 | Ethiofencarb | 10 | Flutraifol | 10 |
| Amitraz | 10 | Clofentazine | 10 | Ethiprole | 10 | Fluxapyroxad | 10 |
| Atrazine | 10 | Clomazone | 10 | Ethirimol | 10 | Fomesafen | 10 |
| Azadirachtin | 10 | Clothianidin | 10 | Ethoprophos | 10 | Forchlorfenuron | 10 |
| Azoxystrobin | 10 | Coumaphos | 10 | Etofenprox | 10 | Formetanate | 10 |
| Benalaxyl | 10 | Cyazofamid | 10 | Etoxazole | 10 | Fuberidazole | 10 |
| Bendiocarb | 10 | Cycluron | 10 | Etridiazole | 30 | Furalaxyl | 10 |
| Benzovindiflupyr | 10 | Cymoxanil | 10 | Fenamidone | 10 | Furathiocarb | 10 |
| Benzoximate | 10 | Cypermethrin | 30 | Fenarimol | 10 | Hexaconazole | 10 |
| Bifenazate | 30 | Cyproconazole I | 10 | Fenazaquin | 10 | Hexaflumuron | 10 |
| Bifenthrin | 10 | Cyproconazole II | 10 | Fenbuconazole | 10 | Hexythiazox | 10 |
| Bitertanol | 10 | Cyprodinil | 10 | Fenhexamid | 10 | Imazalil | 10 |
| Boscalid | 10 | Cyromazine | 10 | Fenobucarb | 10 | Imidacloprid | 10 |
| Bromuconazole I | 10 | Daminozide | 100 | Fenoxycarb | 10 | Indoxacarb | 10 |
| Bromuconazole II | 10 | Deltamethrin | 10 | Fenpropimorph | 10 | Ipconazole | 10 |
| Bupirimate | 10 | Desmedipham | 10 | Fenpyroximate | 10 | lprodione | 10 |
| Buprofezin | 10 | Diazinon | 10 | Fensulfothion | 10 | lprovalicarb | 10 |
| Butafenacil | 10 | Dichlorvos | 10 | Fenthion | 10 | Isoprocarb | 10 |
| Butocarboxim | 10 | Dicrotophos | 10 | Fenuron | 10 | Isoproturon | 10 |
| Butoxycarboxim | 10 | Diethofencarb | 10 | Fipronil | 10 | Ivermectin | 300 |
| Captan | 10 | Difenoconazole | 10 | Fipronil Desulfanyl | 10 | Jasmolin I | 10 |
| Carbaryl | 10 | Diflubenzuron | 10 | Fipronil Sulfone | 10 | Jasmolin II | 10 |
| Carbendazim | 10 | Dimethoate | 10 | Fonicamid | 10 | Kinoprene | 300 |

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CERTIFICATE OF ANALYSIS

CS0449_212041-001_P

Pesticides

Client Sample ID: 6004209-002

Sample Description: Humble Berry Blast 16.6mg/ml

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

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

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Sponsor Sample ID: 6004209-002
Sample Description: Humble Berry Blast 16.6 mg/ml
Company Name: [REDACTED]
Address Line 1: [REDACTED]
Address Line 2: [REDACTED]
Date Received: 20-Jan-21
Analyses Initiated: 20-Jan-21



| | | |
|-------------------------|---|----------------------------|
| Analyst: Brooke Brannen | Analyst Signature: <u>Brooke Brannen</u> <small>Brooke Brannen (Feb 1, 2021 11:08 EST)</small> | Analyst Date: Feb 1, 2021 |
| Reviewer: Jen Heath | Reviewer Signature: <u>Jen Heath</u> | Reviewer Date: Feb 1, 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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CERTIFICATE OF ANALYSIS

CS0449_212041-001_C

Cannabinoids

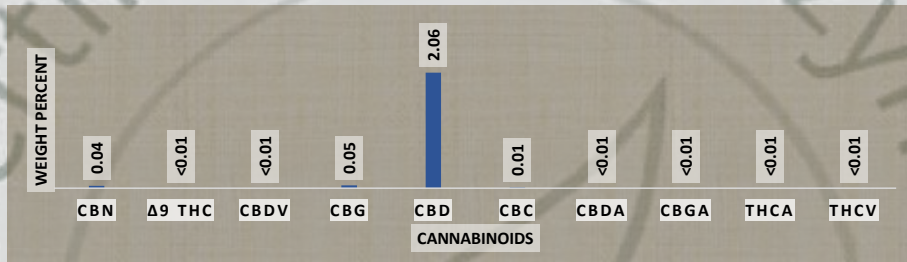
Client Sample ID: 6004209-002
Sample Description: Humble Berry Blast 16.6mg/ml
Receive sample: 20-Jan-21
Initiate analyses: 21-Jan-21



| | | |
|------------------------------------|--|---------------------------------------|
| Analyst: Tonya Powell | Analyst Signature: <i>Tonya Powell</i> | Analyst Date: Jan 26, 2021 |
| Reviewed by: Dave Minser | Reviewer Signature: <i>Dave Minser</i> | Reviewer Date: Jan 26, 2021 |

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

Results:



| Cannabinoid | MoU (+/-) | % Weight | Concentration (mg/mL) |
|-----------------------------|--------------|-----------------|-----------------------|
| CBN | 0.0016 | 0.04 | 0.39 |
| Δ9 THC | NA | <0.01 | <0.095 |
| CBDV | NA | <0.01 | <0.095 |
| CBG | 0.002 | 0.05 | 0.48 |
| CBD | 0.082 | 2.06 | 19.58 |
| CBC | 0.0004 | 0.01 | 0.10 |
| CBDA | NA | <0.01 | <0.095 |
| CBGA | NA | <0.01 | <0.095 |
| THCA | NA | <0.01 | <0.095 |
| THCV | NA | <0.01 | <0.095 |
| * total THC | | <0.01 | <0.095 |
| * total CBD | | 2.06 | 19.58 |
| * total CBG | | 0.05 | 0.48 |
| total | | 2.16 | 20.55 |
| ratio: Total CBD/THC | | | NA |



density = 0.95

* 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.

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Agriculture and Food Testing Solutions
CERTIFICATE OF ANALYSIS
 CS0449_212041-001_M

Mycotoxins

Client Sample ID: 6004209-002
Sample Description: Humble Berry Blast 16.6mg/ml
Receive sample: 20-Jan-21
Initiate analyses: 21-Jan-21

CS0449
 [Redacted]
 [Redacted]
 [Redacted]

| | | |
|--|--|------------------------------|
| Analyst: Jacob Edwards | Signature: <small>Jacob Edwards (Jan 26, 2021 10:52 EST)</small> | Date: Jan 26, 2021 |
| Reviewed by: Harris Middlesworth | Signature: | Date: Jan 26, 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-Epoxychoyochalasin C | ND |
| 3-Acetyl-DON | ND | 19,20-Epoxychoyochalasin 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_212041-001_RS

Residual Solvents

Client Sample ID: 6004209-002
Sample Description: Humble Berry Blast 16.6mg/ml
Receive sample: 20-Jan-21
Initiate analyses: 27-Jan-21



| | | |
|----------------------------|-------------------------|-------------------------------|
| Analyst: Daren Stephens | Analyst Signature: | Analyst Date: Feb 9, 2021 |
| Reviewed by: Tia Young | Reviewer Signature: | Reviewer Date: Feb 9, 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 | 20.0 |
| Ethylene oxide | ND | 5.00 |
| 2-Methylbutane | ND | 1.67 |
| n-Pentane | <1.67 | 1.67 |
| Ethanol | 2702 | 5.00 |
| Diethyl ether | ND | 5.00 |
| Acetone | ND | 5.00 |
| 1,1-Dichloroethene | ND | 5.00 |
| Isopropanol | 5.79 | 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 | 1865 | 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

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