

CERTIFICATE OF ANALYSIS

CS0449_212041-007_HM

Heavy Metals



Sample Description: Humble Honey 16.6mg/ml

Receive sample: 20-Jan-21 Initiate analyses: 22-Jan-21



| Analyst: Tia Young | Analyst Signature: July Work | Analyst Date: Jan 27, 2021 |
|--------------------------------|----------------------------------|--------------------------------|
| Reviewed by: Helen Goudreau | Reviewer Signature: Helle Youthe | Reviewer Date: Jan 27, 2021 |

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

Results:



| Chemical Analyzed | Concentration (µg/g) |
|-------------------|-------------------------|
| Arsenic (As 75) | <0.001 |
| Cadmium (Cd 111) | 0.003 |
| Cadmium (Cd 114) | 0.003 |
| Mercury (Hg 200) | <0.001 |
| Mercury (Hg 202) | <0.001 |
| Lead (Pb 206) | 0.005 |
| Lead (Pb 207) | 0.005 |
| Lead (Pb 208) | 0.005 |



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

each chemical analyzed.

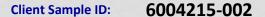
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CERTIFICATE OF ANALYSIS CS0449_212041-007_P

Pesticides



Sample Description: Humble Honey 16.6mg/ml

Received sample: 20-Jan-21 Initiated analyses: 22-Jan-21



| Analyst: Harris Middlesworth | Signature: July C | Date: Jan 22, 2021 |
|-----------------------------------|-------------------|-----------------------|
| Reviewed by: Caroline Vieregge | Signature: grunge | 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* |

AVAZYME



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

PJI
Testi
S ISO/IEC 17/
Accreditation



Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS CS0449_212041-007_P

6004215-002 **Client Sample ID:**

Sample Description: Humble Honey 16.6mg/ml

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

Pesticides

| 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 | Chlorfluazuron | 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 | Fuberdiazole | 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 | Iprodione | 10 |
| Buprofezin | 10 | Diazinon | 10 | Fensulfothion | 10 | Iprovalicarb | 10 |
| Butafenacil | 10 | Dichlorvos | 10 | Fenthion | 10 | Isoprocarb | 10 |
| Butocarboxim | 10 | Dicrotophos | 10 | Fenuron | 10 | Isoproturon | 10 |
| Butoxycarboxim | 10 | Diethofencarb | 10 | Fipronil | 10 | lvermectin | 300 |
| Captan | 10 | Difenoconazole | 10 | Fipronil Desulfinyl | 10 | Jasmolin I | 10 |
| Carbaryl | 10 | Diflubenzuron | 10 | Fipronil Sulfone | 10 | Jasmolin II | 10 |
| Carbendazim | 10 | Dimethoate | 10 | Flonicamid | 10 | Kinoprene | 300 |

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Απαζωμεπεστινιδε



Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS CS0449 212041-007 P

Client Sample ID: 6004215-002

Sample Description: Humble Honey 16.6mg/ml

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



Pesticide

Triflumizole

Triflumuron

Triticonazole

Vamidothion

Zoxamide

LOQ

ppb

10

10

10

10

10

| Pesticide | LOQ | Pesticide | LOQ | Pesticide | LOQ |
|----------------------|-----|-------------------------|-----|-----------------------|-----|
| Kresoxym-methyl | 10 | Oxadixyl | 10 | Siduron | 10 |
| Linuron | 10 | Oxamyl | 10 | Simetryn | 10 |
| Lufenuron | 10 | Oxathiapiprolin | 10 | Spinetoram J | 10 |
| Malathion | 10 | Paclobutrazol | 10 | Spinetoram L | 10 |
| Mandipropamid | 10 | Penconazole | 10 | Spinosyn A | 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 | Temephos | 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 | Quinoxyfen | 10 | Triadimenol | 10 |
| Novaluron | 10 | Resmethrin | 10 | | |
| Nuarimol | 30 | Rotenone | 10 | Tricyclazole | 10 |
| Omethoate | 10 | Secbumeton | 10 | Trifloxystrobin | 10 |

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Standard Pathogen Panel



CERTIFICATE OF ANALYSIS # CS0449-212041-007-SP

Sponsor Sample ID: 6004215-002

Sample Description: Humble Honey 16.6 mg/ml

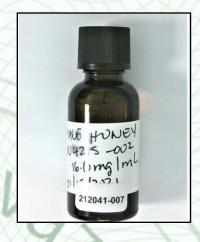
Company Name:

Address Line 1:

Address Line 2:

Date Received: 20-Jan-21

Analyses Initiated: 20-Jan-21



| Analyst: Brooke Brannen | Analyst Signature: Brooke Brannen | Analyst Date: Feb 1, 2021 |
|-------------------------|-----------------------------------|----------------------------|
| Reviewer: Jen Heath | Reviewer Signature: | 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 |
|---|-----------------------------------|--------------|--------------------------------|
| Z | 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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Agriculture and Food Testing Solutions

CERTIFICATE OF ANALYSIS

CS0449_212041-007_C

Cannabinoids

Client Sample ID: 6004215-002

Sample Description: Humble Honey 16.6mg/ml

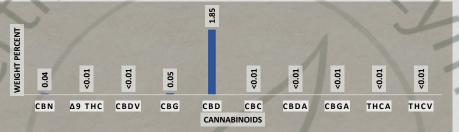
Receive sample: 20-Jan-21 Initiate analyses: 21-Jan-21



| Analyst: Tonya Powell | Analyst Signature: | Analyst Date: Jan 26, 2021 |
|---------------------------|----------------------------|-----------------------------|
| Reviewed by: Dave Minser | Reviewer Signature: De Ma- | Reviewer Date: Jan 26, 2021 |

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

Results:



| Cannabinoid | MoU (+/-) | % Weight | Concentration (mg/mL) |
|-------------|-------------|--------------------|-----------------------|
| CBN | 0.0014 | 0.04 | 0.34 |
| Δ9 ТНС | NA | <0.01 | <0.094 |
| CBDV | NA | <0.01 | <0.094 |
| CBG | 0.0018 | 0.05 | 0.42 |
| CBD | 0.074 | 1.85 | 17.37 |
| CBC | NA | <0.01 | <0.094 |
| CBDA | NA | <0.01 | <0.094 |
| CBGA | NA | <0.01 | <0.094 |
| THCA | NA | <0.01 | <0.094 |
| THCV | NA | <0.01 | <0.094 |
| | * total THC | <0.01 | <0.094 |
| | * total CBD | 1.85 | 17.37 |
| | * total CBG | 0.05 | 0.42 |
| | total | 1.93 | 18.13 |
| | ra | tio: Total CBD/THC | NA |



density = 0.94

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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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^{*} total THC is calculated by $\Delta 9$ THC + 0.877xTHCA *total CBD is calculated by CBD + 0.877xCBDA *total CBG is calculated by CBG + 0.878xCBGA



Agriculture and Food Testing Solutions CERTIFICATE OF ANALYSIS CS0449_212041-007_M

Mycotoxins

Client Sample ID: 6004215-002 CS0449

Sample Description: Humble Honey 16.6mg/ml

Receive sample: 20-Jan-21 **Initiate analyses:** 21-Jan-21

Diacetoxyscirpenol

Moniliformin

Ochratoxin A

Fusarenone X

Date: Jan 26, 2021 Analyst: Signature: Jacob Edwards

Date: Jan 26, 2021 Reviewed by: Signature: Harris Middlesworth

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

ND

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 | | |

LOQ (10ppb



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CERTIFICATE OF ANALYSIS

CS0449_212041-007_RS

Residual Solvents

Client Sample ID: 6004215-002

Sample Description: Humble Honey 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: The Work | 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 | 1614 | 5.00 |
| Diethyl ether | ND | 5.00 |
| Acetone | ND | 5.00 |
| 1,1-Dichloroethene | ND | 5.00 |
| Isopropanol | 6.99 | 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 | ND | 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 | <5.00 | 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 |



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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