

Gobi Hemp

Analytical Report - Certificate of Analysis



Manifest: 2203210004
Sample Id: 1A-GHEMP-2203210004-0001
Sample Name: CBSD-0380 - SUN-0004201223
Sample Type: Concentrate
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Test Performed: Hemp Lab
Report No: R-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-23
Report Date: 2022-03-24
Sample Condition: Good
Method Reference: GH-OP-08

Scope

The content of fifteen residual solvents was determined by an in-house developed method for Headspace-Gas Chromatography with Flame Ionization Detection.

Solvents	LOD (ppm)	LOQ (ppm)	Parts Per Million (ppm)
Propane	135	372	ND
Iso-Butane	82	490	ND
N-Butane	107	490	ND
Methanol	38	120	ND
Pentane	73	100	ND
Ethanol	50	200	ND
Acetone	82	200	ND
IPA	40	200	ND
Hexane	25	50	ND
Ethyl Acetate	57	200	ND
Benzene	0.65	1	ND
Heptane	137	200	ND
Toluene	75	100	ND
Xylenes	112	200	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:

2022-03-24

Jon Person Client Relations Manager

Date

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• Wheat Ridge CO 80033 •
• ISO/IEC 17025:2017 Accredited •
• (303) 955-4934 •



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Sample Name: CBSD-0380 - SUN-0004201223
Sample Type: Concentrate
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Test Performed: Hemp Lab
Report No: R-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-22
Report Date: 2022-03-24
Sample Condition: Good
Method Reference: GH-OP-16

Scope

Ochratoxin and Total Aflatoxin were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS/MS) equipped with electrospray ionization (ESI) in positive mode after sample extraction. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM). Quantitation was determined using external calibration.

Mycotoxins	LOD (ppm)	LOQ (ppm)	Reporting Limits (ppm)	Parts Per Million (ppm)
Aflatoxin G2	0.0019	0.0050	0.0050	ND
Aflatoxin G1	0.0011	0.0050	0.0050	ND
Aflatoxin B2	0.0017	0.0050	0.0050	ND
Aflatoxin B1	0.0015	0.0050	0.0050	ND
Ochratoxin A	0.0033	0.0050	0.0050	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:

2022-03-24

Jon Person Client Relations Manager

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Manifest: 2203210004
Sample Id: 1A-GHEMP-2203210004-0001
Sample Name: CBSD-0380 - SUN-0004201223
Sample Type: Concentrate
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Test Performed: Hemp Lab
Report No: P-2203210004-V2
Receive Date: 2022-03-21
Test Date: 2022-03-23
Report Date: 2022-03-24
Sample Condition: Good
Method Reference: GH-OP-06

Scope

The content of sixteen cannabinoids was determined by an in-house developed method for solvent extraction followed by High Performance Liquid Chromatography with Diode Array Detection.

Cannabinoids	LOD	LOQ	Percent	mg/gram
CBDV	0.003	0.062	0.29	2.90
CBDA	0.0057	0.062	ND	ND
CBGA	0.0046	0.062	ND	ND
CBG	0.0061	0.062	1.55	15.52
CBD	0.0098	0.062	90.14	901.38
THCV	0.0062	0.062	0.11	1.14
CBN	0.0043	0.062	ND	ND
Δ9-THC	0.0048	0.062	ND	ND
CBC	0.0014	0.062	T	T
THCA	0.0032	0.062	ND	ND
CBDVA	0.0024	0.062	ND	ND
THCVA	0.0108	0.062	ND	ND
CBNA	0.0034	0.062	ND	ND
Δ8-THC	0.0032	0.062	ND	ND
CBL	0.007	0.062	ND	ND
CBCA	0.0274	0.062	ND	ND

ND - not detected; T - trace; LOQ - limit of quantitation; LOD - limit of detection

	Percent	mg/gram
Total Δ9-THC	0.00	0.00
Total CBD	90.14	901.38
Total CBG	1.55	15.52
Total Cannabinoids	92.09	920.94

Total Δ9-THC = Δ9-THC + (THCA x 0.877)
 Total CBD = CBD + (CBDA x 0.877)
 Total CBG = CBG + (CBGA x 0.877)

Laboratory Comments:

Jon Person

Jon Person Client Relations Manager

2022-03-24

Date

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Analytical Report - Certificate of Analysis



Manifest: 2203210004
Sample Id: 1A-GHEMP-2203210004-0001
Sample Name: CBSD-0380 - SUN-0004201223
Sample Type: Concentrate
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Test Performed: Hemp Lab
Intended Use: Inhaled or Audited Product
Report No: MT-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-22
Report Date: 2022-03-25
Sample Condition: Good
Method Reference: GH-OP-17

Scope

Arsenic, Cadmium, Lead and Mercury were determined by an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) using an in-house developed method.

Metals	LOD (ppm)	LOQ (ppm)	Sample Reporting Limit (ppm)	Parts Per Million (ppm)
Arsenic	0.007	0.025	0.500	ND
Cadmium	0.003	0.010	0.100	ND
Lead	0.003	0.010	0.100	ND
Mercury	0.0009	0.003	0.100	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:

Dave Wells Laboratory Manager

2022-03-25

Date

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Manifest: 2203210004
Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Report No: M-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-21
Report Date: 2022-03-25
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05 , MBH-OP-10,
MBH-OP-11

Scope

Contaminant testing for the identified pathogens *Salmonella spp.* and *Shiga Toxin Virulence Genes, O26,O45, O103, O111, O121, O145 and O157:H7 serogroups of Escherichia coli (STEC)* was performed through Polymerase Chain Reaction (PCR) presumptive experimentation, and confirmed through cultural methodology where applicable. Results for *Salmonella spp.* and STEC are represented as a negative or positive determination, a negative result indicating no detection of the respective contaminant.

Total Yeast and Mold Count (TYMC)/Total Aerobic Count(TAC)/Total Coliform Count (TCC) were determined through 3M™ Petrifilm™ plating technology. The TYMC/TAC/TCC is represented as a count in colony forming units per gram (cfu/g).



Jerry Hogan - Director of Operations

2022-03-25

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Manifest: 2203210004
Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Report No: M-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-21
Report Date: 2022-03-25
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05, MBH-OP-10,
MBH-OP-11

Sample Id	Product	Salmonella spp.	STEC	TYMC (cfu/g)	TAC (cfu/g)	TCC (cfu/g)
1A-GHEMP-2203210004-0001	CBSD-0380 - SUN-0004201223	Negative	Negative	<100	<100	<100

STEC - shiga toxin-producing *Escherichia coli*; TYMC - total yeast and mold count;
TAC - Total Aerobic Count; TCC - Total Coliform Count;

Laboratory Comments:



Jerry Hogan - Director of Operations

2022-03-25

Date

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Gobi Hemp

Pesticide Residues Report - Certificate of Analysis



Manifest: 2203210004
Sample Id: 1A-GHEMP-2203210004-0001
Sample Name: CBSD-0380 - SUN-0004201223
Sample Type: Concentrate
Client Id: CID-00267
Client: Sunflower Hemp Co
Address: 3002 N Rotary Terrace, Pittsburg, Kansas 66762

Test Performed: Hemp Lab
Report No: PE-2203210004-V1
Receive Date: 2022-03-21
Test Date: 2022-03-23
Report Date: 2022-03-28
Sample Condition: Good
Method Reference: GH-OP-11

Scope

The content of 60 pesticides were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS2) equipped with electrospray ionization (ESI) in positive mode after sample extraction using methodology based on AOAC 2007 and EN 15662 standard procedures. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM), and quantitation was determined using external standard calibration.

Analyte	Reporting Level µg/g	µg/g
Avermectin B1a	0.1	ND
Acephate	0.1	ND
Acetamiprid	0.1	ND
Aldicarb	0.1	NT
Azoxystrobin	0.1	ND
Bifenazate	0.1	ND
Bifenthrin	0.1	ND
Boscalid	0.1	ND
Captan	0.1	ND
Carbaryl	0.1	ND
Carbofuran	0.1	ND
Chlorantraniliprole	0.1	ND
Chlordane	0.1	ND
Chlorpyrifos	0.1	ND
Clofentazine	0.1	ND
Coumaphos	0.1	ND
Baythroid (Cyfluthrin)*	0.1	NT
Cypermethrin*	0.1	NT
Dichlorvos	0.1	ND
Diazinon	0.1	ND
Dimethoate	0.1	ND
Dimethomorph*	0.1	ND
Prophos	0.1	ND
Etofenprox	0.1	ND
Etoxazole	0.1	ND
Fenhexamid	0.1	ND
Fenoxycarb	0.1	ND
Fenpyroximate	0.1	ND
Fipronil	0.1	ND
Flonicamid	0.1	ND
Fludioxonil	0.1	ND

Analyte	Reporting Level µg/g	µg/g
Hexythiazox	0.1	ND
Imazilil	0.1	ND
Imidacloprid	0.1	ND
Kresoxim Methyl	0.1	ND
Malathion	0.1	ND
Metalaxyl	0.1	ND
Methiocarb	0.1	ND
Methomyl	0.1	NT
Mevinphos*	0.1	ND
MGK-264	0.1	ND
Myclobutanil	0.1	ND
Oxamyl	0.1	ND
Paclobutrazol	0.1	ND
Pentachloronitrobenzene	0.1	ND
Permethrin*	0.1	ND
Imidan(Phosmet)	0.1	ND
Piperonyl Butoxide	0.1	ND
Propiconazole	0.1	ND
Propuxor	0.1	ND
Pyrethrin*	0.1	ND
Pyridaben	0.1	ND
Spinetoram	0.1	ND
Spinosad*	0.1	ND
Spiromefesin	0.1	ND
Spirotetramat	0.1	ND
Spiroxamine	0.1	ND
Tebuconazole	0.1	ND
Thiacloprid	0.1	ND
Thiamethoxam	0.1	ND
Trifloxystrobin	0.1	ND

NT - not tested; ND - not detected above Reporting Level; T - trace; * Total of Isomers

Lab Comments:

Jon Person Client Relations Manager

2022-03-28

Date

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