Universal Diagnostics 673 N. Bardstown Rd. Mount Washington, KY, 40047 (502) 444-2044 www.UD-Labs.com Lic # 19-05-02P



Certificate Analysis

Mar 11,2021 | The Helping Friendly Hemp Co.

Madison Heights, MI, 48071 (515) 724-3758





HF Soft Gels 600mg

Matrix: Edible

Accession Number: 030321UD0006

Harvest/Lot ID: Seed to Sale: *

Batch Date: 03/03/21 Batch #: 20251102001

Sample Size Received: 34 units

Retail Product Size: 34

Ordered: 03/03/21

Completed: 03/11/21 **Expires:** 03/10/22

Sampling Method: SOP Client Method

CANNABINOID RESULTS

Total CBD Total THC Total Cannabnoids 0.055% 0.000% 1.797% Cannabinoids/Container THC/Container:18.7 mg CBD/Container:0 mg :610.98 mg



Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-PDA). (Method: SOP.KY.02.005) sample prep and Shimadzu High Sensitivity Method SOP.KY.02.012 for analysis. LOQ for all cannabinoids is 1 mg/L). % = %w/w = Percent (Weight of Analyte/Weight Product) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. **Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation Total THC = THC + (THCa*0.877) Total CBD = CBD + (CBDa*0.877)

Filth & Foreign Matter

PASSED

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by products. An SH-2B/T Stereo Microscope is use for inspection. SOP.KY.02.11

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David Greene

Lab Director

State License # 19-05-02P

03/11/21

Signature

Signed On

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Pesticides PASSED

Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail	Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail
- cis-permethrin	0.0041	ND	ppm	0.4	PASS	- trans-permethrin	0.0118	ND	ppm	0.4	PASS
ABAMECTIN B1A	0.02	ND	ppm	0.5	PASS	ACEPHATE	0.01	ND	ppm	0.4	PASS
ACEQUINOCYL	0.05	ND	ppm	2	PASS	ACETAMIPRID	0.01	ND	ppm	0.2	PASS
ALDICARB	0.02	ND	ppm	0.4	PASS	AZOXYSTROBIN	0.01	ND	ppm	0.2	PASS
BIFENAZATE	0.01	ND	ppm	0.2	PASS	BIFENTHRIN	0.01	ND	ppm	0.2	PASS
BOSCALID	0.01	ND	ppm	0.4	PASS	CARBARYL	0.01	ND	ppm	0.2	PASS
CARBOFURAN	0.01	ND	ppm	0.2	PASS	CHLORANTRANILIPROLE	0.01	ND	ppm	0.2	PASS
CHLORPYRIFOS	0.01	ND	ppm	0.2	PASS	CLOFENTEZINE	0.01	ND	ppm	0.2	PASS
COUMAPHOS	0.01	ND	ppm	0.2	PASS	CYPERMETHRIN	0.02	ND	ppm	1	PASS
DAMINOZIDE	0.02	ND	ppm	1	PASS	DIAZANON	0.01	ND	ppm	0.2	PASS
DICHLORVOS	0.05	ND	ppm	0.1	PASS	DIMETHOATE	0.01	ND	ppm	0.2	PASS
DIMETHOMORPH	0.005	ND	ppm	0.1	PASS	ETHOPROPHOS	0.01	ND	ppm	0.2	PASS
ETOFENPROX	0.01	ND	ppm	0.4	PASS	ETOXAZOLE	0.01	ND	ppm	0.2	PASS
FENHEXAMID	0.005	ND	ppm	0.1	PASS	FENOXYCARB	0.01	ND	ppm	0.2	PASS
FENPYROXIMATE	0.01	ND	ppm	0.4	PASS	FIPRONIL	0.02	ND	ppm	0.4	PASS
FLONICAMID	0.01	ND	ppm	1	PASS	FLUDIOXONIL	0.01	ND	ppm	0.4	PASS
HEXYTHIAZOX	0.01	ND	ppm	1	PASS	IMAZALIL	0.01	ND	ppm	0.2	PASS
IMIDACLOPRID	0.01	ND	ppm	0.4	PASS	KRESOXIM-METHYL	0.01	ND	ppm	0.4	PASS
MALATHION	0.01	ND	ppm	0.2	PASS	METALAXYL	0.01	ND	ppm	0.2	PASS
METHIOCARB	0.01	ND	ppm	0.2	PASS	METHOMYL	0.01	ND	ppm	0.4	PASS
MEVINPHOS	0.01	ND	ppm	0.1	PASS	MYCLOBUTANIL	0.01	ND	ppm	0.2	PASS
NALED	0.01	ND	ppm	0.5	PASS	OXAMYL	0.01	ND	ppm	1	PASS
PACLOBUTRAZOL	0.01	ND	ppm	0.4	PASS	PERMETHRINS (sum)	0.05	ND	ppm	1	PASS
PHOSMET	0.01	ND	ppm	0.2	PASS	PIPERONYL BUTOXIDE	0.01	ND	ppm	2	PASS
PRALLETHRIN	0.05	ND	ppm	0.2	PASS	PROPICONAZOLE	0.01	ND	ppm	0.4	PASS
PROPOXUR	0.01	ND	ppm	0.2	PASS	PYRETHRIN I	0.01	ND	ppm	1	PASS
PYRIDABEN	0.01	ND	ppm	0.2	PASS	SPINETORAM	0.01	ND	ppm	0.5	PASS
SPINOSAD (SPINOSYN A)	0.01	ND	ppm	0.2	PASS	SPINOSAD (SPINOSYN D)	0.01	ND	ppm	0.2	PASS
SPIROMESIFEN	0.01	ND	ppm	0.2	PASS	SPIROTETRAMAT	0.02	ND	ppm	0.2	PASS
SPIROXAMINE	0.01	ND	ppm	0.2	PASS	TEBUCONAZOLE	0.01	ND	ppm	0.4	PASS
THIACLOPRID	0.01	ND	ppm	0.2	PASS	THIAMETHOXAM	0.01	ND	ppm	0.2	PASS
Trifloxystrobin	0.01	ND	ppm	0.2	PASS						

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). **

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PASSED

Analyte	LLOQ	Result	Units	Action Level	Pass / Fail	Analyte	LLOQ	Result	Units	Action Level	Pass / Fail
Aflatoxin B1	0.001	ND	ppm	0.2	PASS	Aflatoxin B2	0.001	ND	ppm	0.2	PASS
Aflatoxin G1	0.001	ND	ppm	0.2	PASS	Aflatoxin G2	0.001	ND	ppm	0.2	PASS
Ocratoxin A+	0.001	ND	ppm	0.2	PASS						

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0ppb). Total Aflatoxins (Aflotoxin B1, B2, G1, G2) must be 20g/Kg. Ochratoxins must be 20g/Kg

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Sampling Method: SOP Client Method

Residual	DACCED
Solvents	PASSED

Solveills					
Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
2-Propanol	60.0	ND	ppm	5000	PASS
Acetone	60	ND	ppm	5000	PASS
Acetonitrile	60	ND	ppm	410	PASS
Butane	200	ND	ppm	5000	PASS
Ethanol	80	ND	ppm	5000	PASS
Ethyl Acetate	60	ND	ppm	5000	PASS
Ethyl Ether	40	ND	ppm	5000	PASS
Heptane	40	ND	ppm	5000	PASS
Hexane	40	ND	ppm	290	PASS
Methanol	40	ND	ppm	3000	PASS
Pentane	60	ND	ppm	5000	PASS
Propane	400	ND	ppm	5000	PASS
Toluene	40	ND	ppm	890	PASS
XYLENES	18.0	ND	ppm	2170	PASS
M/P-Xylene	80	ND	ppm	2170	PASS
O-Xylene	40	ND	ppm	2170	PASS
Total Xylenes	120	ND	ppm	2170	PASS

Heavy Metals	

PASSED

Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
Arsenic	0.2	ND	ppm	1.5	PASS
Cadmium	0.2	ND	ppm	0.5	PASS
Lead	0.2	ND	ppm	1	PASS
Mercury	0.2	ND	ppm	3	PASS

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.3.0.052 Sample Preparation for Heavy Metals Analysis via ICP-MS andSOP.T.40.050 Heavy Metals Analysis via ICP-MS. *Action Limits based on Colorado Regulations.

Microbials

PASSED

Analyte

ASPERGILLUS_FLAVUS.

ASPERGILLUS_FUMIGATUS.

ASPERGILLUS_NIGER .

ASPERGILLUS_TERREUS_1J2.

ESCHERICHIA_COLI_SHIGELLA_SPP

SALMONELLA_SPECIFIC_GENE.

Result
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

not present in 1 gram.

not present in 1 gram.

not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Asper

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