

Certificate of Analysis

Contract Pharmacal Corp.

135 Adams Ave.
Hauppauge New York 11788

Sample Name:	ULEVA FOCUS Capsules	Eurofins Sample:	10105051
Project ID	CONTR_PHAR-20201208-0019	Receipt Date	08-Dec-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	203006	Login Date	08-Dec-2020
Sample Serving Size		Date Started	10-Dec-2020
Description	PC: 5517A	Sampled	Sample results apply as received

Analysis

Result

Terpenes

(-)-alpha-Bisabolol	3.4 mg/100g
Camphene	<1.0 mg/100g
(1S)-(+)-3-Carene	<1.0 mg/100g
beta-Caryophyllene	1.2 mg/100g
p-Cymene	<1.0 mg/100g
Eucalyptol	<1.0 mg/100g
alpha-Humulene (alpha-Caryophyllene)	<1.0 mg/100g
(-)-Isopulegol	<1.0 mg/100g
(R)-(+)-Limonene	<1.0 mg/100g
Linalool	<1.0 mg/100g
beta-Myrcene	<1.0 mg/100g
(E)-b-Ocimene	<0.60 mg/100g
(Z)-b-Ocimene	<0.30 mg/100g
alpha-Pinene	<1.0 mg/100g
beta-Pinene	<1.0 mg/100g
alpha-Terpinene	<1.0 mg/100g
gamma-Terpinene	<1.0 mg/100g
Terpinolene	<1.0 mg/100g

Industrial Hemp Cannabinoid Profile - Retest

CBDVA	0.00535 %
CBDV	0.0522 %
CBDA	0.00893 %
CBGA	<0.00250 %
CBG	0.0133 %
CBD	4.88 %
THCV	0.00275 %
CBN	0.0261 %
Delta 9-THC	0.0111 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.0448 %

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Industrial Hemp Cannabinoid Profile - Retest

Total Cannabinoids	5.06 %
Total THC (THC + (THCA x 0.877))	0.0111 %
Total CBD (CBD + (CBDA x 0.877))	4.89 %
CBDVA	0.00529 %
CBDV	0.0505 %
CBDA	0.00845 %
CBGA	<0.00250 %
CBG	0.0133 %
CBD	4.80 %
THCV	0.00259 %
CBN	0.0261 %
Delta 9-THC	0.0107 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.0442 %
Total Cannabinoids	4.97 %
Total THC (THC + (THCA x 0.877))	0.0107 %
Total CBD (CBD + (CBDA x 0.877))	4.81 %
CBDVA	0.00519 %
CBDV	0.0513 %
CBDA	0.00859 %
CBGA	<0.00250 %
CBG	0.0128 %
CBD	4.78 %
THCV	0.00262 %
CBN	0.0256 %
Delta 9-THC	0.0109 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.0437 %
Total Cannabinoids	4.95 %

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Industrial Hemp Cannabinoid Profile - Retest

Total THC (THC + (THCA x 0.877))	0.0109 %
Total CBD (CBD + (CBDA x 0.877))	4.79 %
THCVA	<0.00250 %
CBNA	<0.00250 %
CBCA	<0.00250 %
CBL	0.0130 %
THCVA	<0.00250 %
CBNA	<0.00250 %
CBCA	<0.00250 %
CBL	0.0120 %
THCVA	<0.00250 %
CBNA	<0.00250 %
CBCA	<0.00250 %
CBL	0.0124 %

Salmonella (BAX) PCR Detection *

Salmonella	Not Detected /25 g
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Yeast and Mold Plate Count *

Yeast Plate Count	< 10 CFU/g
Mold Plate Count	50 (EST) CFU/G

Aerobic Plate Count *

Standard Plate Count	< 10 CFU/g
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Elements by ICP Mass Spectrometry

Arsenic	42.9 ppb
Cadmium	15.0 ppb
Lead	50.5 ppb
Mercury	<5.00 ppb

Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents) *

Class 2

2-Methoxyethanol	<50.0 ppm
2-Ethoxyethanol	<160 ppm
N,N-Dimethylformamide	<880 ppm

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Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents) *

N,N-Dimethylacetamide	<1090 ppm
Ethylene Glycol	<620 ppm
N-Methylpyrrolidone	<530 ppm
Formamide	<220 ppm
Sulfolane	<160 ppm

Class 3

Dimethyl Sulfoxide	<250 ppm
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E.coli and Coliforms (Petrifilm) *

Total coliforms	< 10 CFU/g
Escherichia Coli	< 10 CFU/g

Analysis

Limit

Result

Pass/Fail

Multi-Residue Analysis for hemp products - 60+ compounds

Abamectin	<0.30 mg/kg
Aldicarb	<0.10 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.10 mg/kg
Aldicarb sulfoxide	<0.10 mg/kg
Azoxystrobin	<0.10 mg/kg
Bifenazate	<0.10 mg/kg
Bifenthrin	<0.10 mg/kg
Carbaryl	<0.10 mg/kg
Carbofuran	<0.10 mg/kg
Carbofuran-3-hydroxy-	<0.10 mg/kg
Chlorantraniliprole	<0.10 mg/kg
Chlordane, cis-	<0.10 mg/kg
Chlordane, trans-	<0.10 mg/kg
Chlorfenapyr	<0.10 mg/kg
Chlorpyrifos	<0.10 mg/kg
Coumaphos	<0.10 mg/kg
Cyfluthrin	<0.10 mg/kg
Cypermethrin	<0.10 mg/kg

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Cyproconazole (2 diastereoisomers)		<0.10 mg/kg	
Cyprodinil		<0.10 mg/kg	
Dichlorvos		<0.10 mg/kg	
Diclobutrazol		<0.10 mg/kg	
Dipropetryn		<0.10 mg/kg	
Disulfoton		<0.10 mg/kg	
Endosulfan I (alpha-isomer)		<0.20 mg/kg	
Endosulfan II (beta-isomer)		<0.20 mg/kg	
Endosulfan sulfate		<0.20 mg/kg	
Epoxiconazole		<0.10 mg/kg	
Ethiofencarb		<0.10 mg/kg	
Etofenprox		<0.10 mg/kg	
Etoxazole		<0.10 mg/kg	
Fenoxycarb		<0.10 mg/kg	
Fenpropathrin		<0.10 mg/kg	
Fenvalerate/Esfenvalerate (sum of isomers)		<0.20 mg/kg	
Fipronil		<0.10 mg/kg	
Fipronil desulfinyl		<0.10 mg/kg	
Fipronil sulfone		<0.10 mg/kg	
Imazalil		<0.10 mg/kg	
Imidacloprid		<0.10 mg/kg	
Malathion		<0.10 mg/kg	
Methiocarb		<0.10 mg/kg	
Methiocarb sulfone		<0.10 mg/kg	
Methiocarb sulfoxide		<0.10 mg/kg	
Methomyl		<0.10 mg/kg	
Metolachlor		<0.10 mg/kg	
Mevinphos (E- and Z-isomers)		<0.10 mg/kg	
Myclobutanil		<0.10 mg/kg	
Naled (Dibrom)		<0.10 mg/kg	

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Analysis	Limit	Result	Pass/Fail
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Multi-Residue Analysis for hemp products - 60+ compounds

Paclobutrazol		<0.10 mg/kg	
Permethrin (sum of isomers)		<0.10 mg/kg	
Propoxur		<0.10 mg/kg	
Pyrethrum (total)		<1.0 mg/kg	
Spinetoram (spinosyns J and L)		<0.10 mg/kg	
Spinosad (spinosyns A and D)		<0.10 mg/kg	
Spirodiclofen		non-analyzable	
Spiromesifen		<0.10 mg/kg	
Spirotetramat		<0.10 mg/kg	
Spiroxamine (2 diastereoisomers)		<0.10 mg/kg	
Tebuconazole		<0.10 mg/kg	
Thiabendazole		<0.10 mg/kg	
Thiabendazole-5-hydroxy-		<0.10 mg/kg	
Thiacloprid		<0.10 mg/kg	
Trifloxystrobin		<0.10 mg/kg	

Analysis	LOQ	Limit	Result	Pass/Fail
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Residual Solvents - Class 3, Acids Only *

Acetic Acid	200 ppm		<200 ppm	
Formic Acid	200 ppm		<200 ppm	

Method References

Testing Location

Aerobic Plate Count (APC)

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

FDA BAM Ch. 3
AOAC 966.23
CMMEF Ch. 8

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Method References	Testing Location
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E.coli and Coliforms (Petrifilm) (ECCOLIPET)

AOAC 991.14

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

Elements by ICP Mass Spectrometry (ICP_MS_S)

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).
Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Industrial Hemp Cannabinoid Profile - Retest (IHCBD_S)

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Multi-Residue Analysis for hemp products - 60+ compounds (PEST_HEMP)

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents) (USPR_DIN_S)

United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2016). (Modified).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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Method References

Testing Location

Residual Solvents - Class 3, Acids Only (USPR_ACD_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

[1] United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified)

[2] Zhou, D., Hou, Q., Liu, W., Ren, X., "Rapid determination of formic and acetic acids in biomass hydrolysate by headspace gas chromatography," Journal of Industrial and Engineering Chemistry, 47:281-287 (2017).

Salmonella (BAX) PCR Detection (SALBAX)

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

AOAC 2003.09; DuPont Qualicon BAX System User Guide, Part Number 2CQ-049. 13-0713-V3.3, 2005-2013.

Terpenes (TERPENES_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Internally Developed Method

Yeast and Mold Plate Count (YM_SPRD)

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

Compendium of Methods for the Microbiological Examination of Foods, Yeasts and Molds, 4th Edition, Chapter 20, 2001, (Modified)

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
Madison WI 53704
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