

Certificate of Analysis

Contract Pharmacal Corp.

135 Adams Ave.
Hauppauge New York 11788

Sample Name:	ULEVA SLEEP 2.0 CAPSULES	Eurofins Sample:	11021641
Project ID	CONTR_PHAR-20211005-0012	Receipt Date	05-Oct-2021
PO Number	2021-00-19914	Receipt Condition	Ambient temperature
Lot Number	111895	Login Date	05-Oct-2021
Sample Serving Size	569 mg	Date Started	06-Oct-2021
Description	PC: 5550A	Sampled	Sample results apply as received
		Number Composited	20

Analysis	Percent of Label Claim	Specifications	Result
Industrial Hemp Cannabinoid Profile			
CBDVA			<0.0142 mg/Serving Size
CBDV			0.126 mg/Serving Size
CBDA			<0.0142 mg/Serving Size
CBGA			<0.0142 mg/Serving Size
CBG			0.499 mg/Serving Size
CBD			25.3 mg/Serving Size
THCV			<0.0142 mg/Serving Size
CBN			0.0157 mg/Serving Size
Delta 9-THC			0.0151 mg/Serving Size
Delta 8-THC			<0.0285 mg/Serving Size
THCA			<0.0142 mg/Serving Size
CBC			0.0313 mg/Serving Size
THCVA			<0.0142 mg/Serving Size
CBNA			<0.0142 mg/Serving Size
CBCA			<0.0142 mg/Serving Size
CBL			<0.0142 mg/Serving Size
Total Cannabinoids			26.0 mg/Serving Size
Total THC (THC + (THCA x 0.877))			0.0151 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	101%	25 mg/Serving Size	25.3 mg/Serving Size
Terpenes			
(-)-alpha-Bisabolol			<1.0 mg/100g
Camphene			<1.0 mg/100g
(1S)-(+)-3-Carene			<1.0 mg/100g
beta-Caryophyllene			<1.0 mg/100g
p-Cymene			<1.0 mg/100g

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Terpenes			
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
Yeast and Mold Plate Count *			
Yeast Plate Count			<10 CFU/g
Mold Plate Count			<10 CFU/g
Aerobic Plate Count *			
Standard Plate Count			<10 CFU/g
Elements by ICP Mass Spectrometry			
Arsenic			37.5 ppb
Cadmium			<5.00 ppb
Lead			33.5 ppb
Mercury			<5.00 ppb
Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents)			
Class 2			
2-Methoxyethanol			<50.0 ppm

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Analysis	Percent of Label Claim	Specifications	Result
Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents)			
2-Ethoxyethanol			<160 ppm
N,N-Dimethylformamide			<880 ppm
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
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	

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

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
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	
Pacllobutrazol		<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
Residual Solvents - Class 3, Acids Only *				
Acetic Acid	200 ppm		<200 ppm	
Formic Acid	200 ppm		<200 ppm	

Method References

Testing Location

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Method References

Testing Location

Aerobic Plate Count (APC)

FDA BAM Ch. 3
AOAC 966.23
CMMEF Ch. 8

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

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

6304 Ronald Reagan Ave 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

6304 Ronald Reagan Ave 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

6304 Ronald Reagan Ave 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).

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Method References

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Residual Solvents - Class 3, Acids Only (USPR_ACD_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave 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).

Terpenes (TERPENES_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave 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.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



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