

Certificate of Analysis

Zilis LLC

415 US-377

Argyle Texas 76226 United States

Sample Name:	Topical	Eurofins Sample:	8900346
Project ID	ZILIS-20191008-0026	Receipt Date	04-Oct-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	FZI30S	Login Date	08-Oct-2019
Sample Serving Size	1 mL	Date Started	08-Oct-2019

Analysis	Result
Industrial Hemp Cannabinoid Profile	
Delta 9-THC	0.00876 %
THCA	<0.00250 %
Total THC (THC + (THCA x 0.877))	0.00876 %

Method References	Testing Location
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Industrial Hemp Cannabinoid Profile (IHCBD_S)	Food Integrity Innovation-Boulder
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Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection, " First Action Method, Journal of AOAC International, Future Issue

Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Boulder	Ian Laessig - Manager
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Eurofins Food Chemistry Testing US, Inc.
2830 Wilderness Pl
Boulder CO 80301
800-675-8375



AT-1816

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Sample Name:	Topical	Eurofins Sample:	8900346
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Sample Serving Size	1 mL	Sampled	Sample results apply as received

Analysis	Result	Specifications	Pass/Fail
E. coli *			
Escherichia Coli	Absent /10 g		
Salmonella USP *			
Salmonella	Absent /10 g		
Yeast and Mold Count *			
Yeast Count	<10.0 CFU/g	<= 100 CFU/g	Pass
Mold Count	<10.0 CFU/g	<= 100 CFU/g	Pass
Preparatory Testing of Nutritional and Dietary Supplements *			
Yeast and Mold Suitability	Pass**		
E. coli Suitability Result	Pass**		
Salmonella Suitability Result	Pass**		
Metals Analysis by ICP-MS			
Arsenic	<0.0725 mcg/g	0.05 mcg/g	Pass
Cadmium	<0.0181 mcg/g	0.05 mcg/g	Pass
Lead	0.0188 mcg/g	0.05 mcg/g	Pass
Mercury	<0.00906 mcg/g	0.1 mcg/g	Pass
Multi-Residue Analysis for hemp products - 60+ compounds			
Matrix Type - To Determine Limit of Quantification (LOQ)	Spices - Botanicals - and other Specialty Samples		
Abamectin	<0.050 mg/kg	<= 0.3 mg/kg	Pass
Aldicarb	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Aldicarb sulfoxide	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Azoxystrobin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Bifenazate	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Bifenthrin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Carbaryl	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Carbofuran	<0.050 mg/kg	<= 0.1 mg/kg	Pass

* This analysis or component is not ISO accredited.

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Analysis	Result	Specifications	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Carbofuran-3-hydroxy-	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Chlorantraniliprole	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Chlordane, cis-	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Chlordane, trans-	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Chlorfenapyr	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Chlorpyrifos	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Coumaphos	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Cyfluthrin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Cypermethrin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Cyproconazole (2 diastereoisomers)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Cyprodinil	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Dichlorvos	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Diclobutrazol	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Dipropetryn	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Disulfoton	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Endosulfan I (alpha-isomer)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Endosulfan II (beta-isomer)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Endosulfan sulfate	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Epoxiconazole	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Ethiofencarb	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Etofenprox	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Etoxazole	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Fenoxycarb	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Fenpropathrin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Fenvalerate/Esfenvalerate (sum of isomers)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Fipronil	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Fipronil desulfinyl	<0.050 mg/kg	<= 0.1 mg/kg	Pass

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Analysis	Result	Specifications	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Fipronil sulfone	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Imazalil	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Imidacloprid	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Malathion	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Methiocarb	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Methiocarb sulfone	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Methiocarb sulfoxide	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Methomyl	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Metolachlor	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Mevinphos (E- and Z-isomers)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Myclobutanil	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Naled (Dibrom)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Paclobutrazol	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Permethrin (sum of isomers)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Propoxur	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Pyrethrum (total)	<0.50 mg/kg	<= 1 mg/kg	Pass
Spinetoram (spinosyns J and L)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spinosad (spinosyns A and D)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spirodiclofen	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spiromesifen	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spiromesifen enol	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spirotetramat	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Spiroxamine (2 diastereoisomers)	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Tebuconazole	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Thiabendazole	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Thiabendazole-5-hydroxy-	<0.050 mg/kg	<= 0.1 mg/kg	Pass
Thiacloprid	<0.050 mg/kg	<= 0.1 mg/kg	Pass

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

Trifloxystrobin	<0.050 mg/kg	<= 0.1 mg/kg	Pass
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Miscellaneous analysis *

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

1-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Pentanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
2-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
Methylethylketone	200 ppm	5000 ppm	<200 ppm	Pass
3-Methyl-1-butanol	200 ppm	5000 ppm	<200 ppm	Pass
Acetic Acid Butyl Ester	200 ppm	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass
Anisole	200 ppm	5000 ppm	<200 ppm	Pass
Diethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
Ethanol	200 ppm	5000 ppm	2380 ppm	Pass
Ethyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Formate	500 ppm	5000 ppm	<500 ppm	Pass
2-Methyl-1-propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isobutyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
2-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isopropyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutylketone	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
n-Heptane	200 ppm	5000 ppm	<200 ppm	Pass
n-Pentane	200 ppm	5000 ppm	<200 ppm	Pass
Propyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Total Class 3 Residual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

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Method References

Testing Location

E. coli (USPE2022)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Metals Analysis by ICP-MS (ICP_MS_B_S)

Food Integrity Innovation-Boulder

2830 Wilderness Pl Boulder, CO 80301 USA

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version.

Miscellaneous analysis (MISC_4019)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

for billing purposes only

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

Food Integ. Innovation-Greenfield

671 S. Meridian Road Greenfield, IN 46140 USA

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

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.

Preparatory Testing of Nutritional and Dietary Supplements (USPE_PT)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

Preparatory Testing of Nutritional and Dietary Supplements (USPM_PT)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

Preparatory Testing of Nutritional and Dietary Supplements (USPS_PT)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

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Method References

Testing Location

Residual Solvents - Class 3 (USPR_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

Salmonella USP (USPS2022)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Yeast and Mold Count (USPM2021)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

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Released on Behalf of Eurofins by

Food Integrity Innovation-Boulder

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Eurofins Food Chemistry Testing US, Inc.
2830 Wilderness Pl
Boulder CO 80301
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2102 Wright Street
Madison WI 53704
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ULTRA CELL[®]

PROPRIETARY HEMP CBD TOPICAL

Full Spectrum



TOPICAL PRODUCT SPEC/COA

ZILIS ULTRACELL HEMP OIL TOPICAL – 500 mg (60 mL) / 116.7 mg (7 mL)

Product Description:	100% Industrial Hemp Extract with Ultracell [®] Technology
Batch Manufacture Date:	9/30/2019
Expiration Date:	9/30/2021
Batch Size:	378 liters
Total Quantity:	51,521 Bottles
Ingredients Used:	Aloe Leaf, Meadowfoam Seed Oil, Menthol, Capsicum Fruit Oleoresin, White Camphor Bark Oil, Sweet Basil Leaf Oil, Roman Chamomile Flower Oil, German Chamomile Flower Oil, Cinnamon Leaf Oil, Eucalyptus Leaf Oil, Pink Grapefruit Peel Oil, Juniper Berry Oil, Lemongrass Oil, Peppermint Oil, Pine Needle Oil, Ravensara Oil, Rosemary Leaf Oil, Spearmint Oil, Wild Oregano Oil, Alcohol, Phenoxyethanol, Carbomer, Triethanolamine, Tetrasodium Glutamate Diacetate, Witch Hazel.
Manufactured by:	Zilis, LLC
Lot Number:	FZ130S
Batch Number:	FZ130S
Country of Origin:	USA
Storage/Handling:	Keep in room temperature, protected from light, excessive heat and moisture.
THC Profile:	Delta9-THC: 0.00876% Total THC: 0.00876% (Testing method: HPLC); (Federal THC Limit: < 0.3%)
Packaging:	60 mL blue cobalt glass jar / 7 mL clear glass jar
QR Code Link:	COA.ZILIS.COM

Appearance:

Thick viscosity. Opaque cream color.

(Testing method: Visual inspection/Organoleptic)

HEMP ECS BLEND: Full Spectrum Hemp Extract, Black Pepper Oil, Citronella Oil, Helichrysum Flower Oil, Ginger Root Oil.

OTHER INGREDIENTS: Aloe Leaf, Meadowfoam Seed Oil, Menthol, Capsicum Fruit Oleoresin, White Camphor Bark Oil, Sweet Basil Leaf Oil, Roman Chamomile Flower Oil, German Chamomile Flower Oil, Cinnamon Leaf Oil, Eucalyptus Leaf Oil, Pink Grapefruit Peel Oil, Juniper Berry Oil, Lemongrass Oil, Peppermint Oil, Pine Needle Oil, Ravensara Oil, Rosemary Leaf Oil, Spearmint Oil, Wild Oregano Oil, Alcohol, Phenoxyethanol, Carbomer, Triethanolamine, Tetrasodium Glutamate Diacetate, Witch Hazel.

DIRECTIONS: Use a pea-sized amount and rub on affected area. Add more for larger area. Remember, less is more!

WARNING: For external use only. Apply to intact skin. Avoid contact with eyes. Always test a small amount before use. Discontinue if skin becomes irritated. Not intended for pregnant women and children under the age of 18.

Zilis LLC. • 415 US Hwy 377, Suite 2020, Argyle, TX 76226 • PHONE: 214-705-3702 • FAX: 972-692-7434 • EMAIL: support@zilis.com



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