

Certificate of Analysis

Zilis LLC

415 US 377

Argyle Texas 76226 United States

Sample Name:	909R	Eurofins Sample:	8841244
Project ID	ZILIS-20190919-0023	Receipt Date	19-Sep-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	909R	Login Date	19-Sep-2019
Sample Serving Size		Date Started	24-Sep-2019

Analysis

Result

Industrial Hemp Cannabinoid Profile

Delta 9-THC	0.0153 %
THCA	<0.00250 %

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Boulder

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

Food Integrity Innovation-Boulder

Ian Laessig - Manager

Eurofins Food Chemistry Testing US, Inc.
2830 Wilderness Pl
Boulder CO 80301
800-675-8375



AT-1816

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Certificate of Analysis

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Sample Name:	Raw: 909R	Eurofins Sample:	8902752
Project ID	ZILIS-20191009-0027	Receipt Date	07-Oct-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	909R	Login Date	09-Oct-2019
Sample Serving Size	1 mL	Date Started	09-Oct-2019
		Sampled	Sample results apply as received

Analysis	Result	Specifications	Pass/Fail
Specific Gravity *			
Density	0.900 g/mL	0.9 g/mL	Pass
Aerobic Plate Count *			
Aerobic Plate Count	<100 CFU/g	<= 1000 CFU/g	Pass
E. coli *			
Escherichia Coli	Absent /10 g		
Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) *			
Enterobacterial Count	<10.0 MPN/g	<= 100 MPN/g	Pass
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 *			
E. coli Suitability Result	Pass**		
Yeast and Mold Suitability	Pass**		
Bile-Tolerant Gram-Neg Bacteria Suitability Result	Pass**		
Salmonella Suitability Result	Pass**		
Preparatory Testing of Nutritional and Dietary Supplements - Retest *			
Aerobic Plate Suitability Result	Pass**		
Metals Analysis by ICP-MS			
Arsenic	<0.0581 mcg/Serving Size	<= 10 mcg/Serving Size	Pass
Cadmium	<0.0145 mcg/Serving Size	<= 4.1 mcg/Serving Size	Pass
Lead	<0.0145 mcg/Serving Size	<= 6 mcg/Serving Size	Pass
Mercury	<0.00726 mcg/Serving Size	<= 2.0 mcg/Serving Size	Pass
Multi-Residue Analysis for hemp products - 60+ compounds			
Matrix Type - To Determine Limit of Quantification (LOQ)	Spices - Botanicals - and other Specialty Samples		

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Analysis	Result	Specifications	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Abamectin	<0.30 mg/kg	<= 0.30 mg/kg	Pass
Aldicarb	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Aldicarb sulfoxide	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Azoxystrobin	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Bifenazate	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Bifenthrin	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Carbaryl	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Carbofuran	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Carbofuran-3-hydroxy-	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Chlorantraniliprole	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Chlordane, cis-	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Chlordane, trans-	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Chlorfenapyr	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Chlorpyrifos	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Coumaphos	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Cyfluthrin	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Cypermethrin	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Cyproconazole (2 diastereoisomers)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Cyprodinil	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Dichlorvos	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Diclobutrazol	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Dipropetryn	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Disulfoton	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Endosulfan I (alpha-isomer)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Endosulfan II (beta-isomer)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Endosulfan sulfate	<0.10 mg/kg	<= 0.30 mg/kg	Pass

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Analysis	Result	Specifications	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Epoxiconazole	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Ethiofencarb	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Etofenprox	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Etoxazole	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fenoxycarb	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fenpropathrin	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fenvalerate/Esfenvalerate (sum of isomers)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fipronil	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fipronil desulfinyl	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Fipronil sulfone	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Imazalil	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Imidacloprid	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Malathion	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Methiocarb	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Methiocarb sulfone	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Methiocarb sulfoxide	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Methomyl	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Metolachlor	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Mevinphos (E- and Z-isomers)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Myclobutanil	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Naled (Dibrom)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Paclobutrazol	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Permethrin (sum of isomers)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Propoxur	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Pyrethrum (total)	<1.0 mg/kg	<= 1.0 mg/kg	Pass
Spinetoram (spinosyns J and L)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Spinosad (spinosyns A and D)	<0.10 mg/kg	<= 0.30 mg/kg	Pass

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Analysis	Result	Specifications	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Spirodiclofen	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Spiromesifen	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Spiromesifen enol	non-analyzable	<= 0.30 mg/kg	
Spirotetramat	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Spiroxamine (2 diastereoisomers)	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Tebuconazole	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Thiabendazole	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Thiabendazole-5-hydroxy-	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Thiacloprid	<0.10 mg/kg	<= 0.30 mg/kg	Pass
Trifloxystrobin	<0.10 mg/kg	<= 0.30 mg/kg	Pass

Miscellaneous analysis *

Analysis	LOQ	Limit	Result	Pass/Fail
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
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

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

Method References

Testing Location

Aerobic Plate Count (USPC2021)

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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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.

Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021)

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.

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

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Method References	Testing Location
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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 - Retest (USPC_PT)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

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 (USPN_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

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.

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Method References	Testing Location
Specific Gravity (SPGP_S) NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)	Food Integrity Innovation-Boulder 2830 Wilderness Pl Boulder, CO 80301 USA
Yeast and Mold Count (USPM2021) 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.	Food Integ. Innovation-Madison NE 2102 Wright Street Madison, WI 53704 USA

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Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Boulder

Ian Laessig - Manager

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Food Integ. Innovation-Greenfield

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ULTRA CELL[®]

PROPRIETARY HEMP CBD OIL

Full Spectrum and Water Soluble



ZILIS ULTRACELL HEMP OIL EXTRACT – Raw 500 mg (30 mL) / 116.7 mg (7 mL)

Product Description:	100% Industrial Hemp Extract with Ultracell [®] Technology
Batch Manufacture Date:	9/13/2019
Expiration Date:	9/13/2021
Batch Size:	378 liters
Total Quantity:	11,600 Bottles
Ingredients Used:	Purified Water, Glycerin, Sunflower Lecithin, Polysaccharide Blend (from Xanthan Gum and Acacia Gum), Citric Acid, Potassium Sorbate.
Manufactured by:	Zilis, LLC
Lot Number:	909R
Batch Number:	909R
Country of Origin:	USA
Storage/Handling:	Keep in room temperature, protected from light, excessive heat and moisture.
THC Profile:	Delta9-THC: 0.0153% Total THC: 0.0153% (Testing method: HPLC); (Federal THC Limit: < 0.3%)
Packaging:	30 mL blue cobalt glass bottle / 15 mL blue cobalt glass bottle
QR Code Link:	COA.ZILIS.COM

Appearance:

Light to Medium thickness.
Characteristic taste and smell.

(Testing method: Visual inspection/Organoleptic)

Serving Size 1 Dropper (1 mL)
Servings Per Bottle 30

	Amount per Serving	% Daily Value
Hemp Oil Extract (from aerial parts)	16.67 mg	±
Cannabidiol (CBD)	4.17 mg	±

± Daily Value not established.

OTHER INGREDIENTS: Purified Water, Glycerin, Sunflower Lecithin, Polysaccharide Blend (from Xanthan Gum and Acacia Gum), Citric Acid, Potassium Sorbate.

DIRECTIONS: Shake before using. Take one (1) dropper (1mL) per day or as directed by a physician. Intended for oral use only. Consult your qualified healthcare provider prior to using this product, especially if you have a medical condition or are taking any medications. Not intended for use by pregnant or nursing women or anyone under age 18. Keep out of reach of children.

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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