

## Certificate of Analysis

### Medterra CBD, LLC

9805 Research Dr  
Irvine California 92618 United States

<b>Sample Name:</b>	<b>Medterra CBD Liposomal Good Night Capsules 25mg 30ct</b>	<b>Eurofins Sample:</b>	<b>9775943</b>
<b>Project ID</b>	MEDTER_CBD-20200818-0009	<b>Receipt Date</b>	20-Aug-2020
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	48707	<b>Login Date</b>	18-Aug-2020
<b>Sample Serving Size</b>		<b>Date Started</b>	20-Aug-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	16739-13FEB72D

Analysis	Result
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#### Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	0.00478 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	<0.00250 %
CBD	2.73 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	0.00525 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
THCVA	<0.00250 %
CBNA	<0.00250 %
CBCA	<0.00250 %
CBL	<0.00250 %
Total Cannabinoids	2.74 %
Total THC (THC + (THCA x 0.877))	0.00525 %
Total CBD (CBD + (CBDA x 0.877))	2.73 %

#### Elements by ICP Mass Spectrometry

Arsenic	64.8 ppb
Cadmium	315 ppb
Lead	86.6 ppb
Mercury	<25.0 ppb

Analysis	Limit	Result	Pass/Fail
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#### BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices \*

##### Category I Residual Solvent or Processing Chemical

1,2-Dichloroethane	1.0 ppm	<1.0 ppm	Pass
Benzene	1.0 ppm	<1.0 ppm	Pass
Chloroform	1.0 ppm	<1.0 ppm	Pass

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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices *</b>			
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
The BCC limit of 1 ppm for Ethylene Oxide is not achieved by this method. Reporting limit of 25 ppm is the limit recommended by the AOAC CASP.			
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 ppm	Pass
<b>Category II Residual Solvent or Processing Chemical</b>			
Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass
Ethanol	5000 ppm	<1000 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass
Methanol	3000 ppm	<500 ppm	Pass
Butane	5000 ppm	<500 ppm	Pass
Heptane	5000 ppm	<50.0 ppm	Pass
Hexane	290 ppm	<30.0 ppm	Pass
Pentane	5000 ppm	<25.0 ppm	Pass
Propane	5000 ppm	<1000 ppm	Pass
Toluene	890 ppm	<90.0 ppm	Pass
Xylenes (ortho-, meta-, para-)	2170 ppm	<160 ppm	Pass
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.			
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Abamectin	0.3 mg/kg	<0.30 mg/kg	Pass
Acephate	5 mg/kg	<0.10 mg/kg	Pass
Acequinocyl	4 mg/kg	<1.0 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.10 mg/kg	Pass
Bifenazate	5 mg/kg	<0.10 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.10 mg/kg	Pass
Captan	5 mg/kg	<0.20 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.10 mg/kg	Pass
Carbofuran	0.1 mg/kg	<0.10 mg/kg	Pass
Carbofuran-3-hydroxy-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.10 mg/kg	Pass
Chlordane, cis-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlordane, trans-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.10 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.10 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.10 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.10 mg/kg	Pass
Cypermethrin	1 mg/kg	<0.10 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.10 mg/kg	Pass
Dichlorvos	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.10 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.10 mg/kg	Pass
Etoxazole	1.5 mg/kg	<0.10 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.10 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Fipronil	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Flonicamid	2 mg/kg	<0.10 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.10 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.10 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.10 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.10 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.10 mg/kg	Pass
Malathion	5 mg/kg	<0.10 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.10 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.10 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.10 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.10 mg/kg	Pass
Naled	0.5 mg/kg	<0.10 mg/kg	Pass
Oxamyl	0.2 mg/kg	<0.10 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.10 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.10 mg/kg	Pass
Pentachloroaniline	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorothioanisole	0.2 mg/kg	<0.10 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.10 mg/kg	Pass
Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<1.0 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
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#### Multi-Residue Analysis for hemp products - BCC Pesticide List

Propiconazole (sum of isomers)	20 mg/kg	<0.10 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.10 mg/kg	Pass
Pyrethrins	1 mg/kg	<1.0 mg/kg	Pass
Pyridaben	3 mg/kg	<0.10 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Spinetoram	3 mg/kg	<0.10 mg/kg	Pass
Spinosad	3 mg/kg	<0.10 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.10 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.10 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.10 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.10 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.10 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.10 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.10 mg/kg	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Prallethrin reporting limit is higher than BCC action level, but EPA tolerance is 1 ppm.

#### Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide

Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 mg/kg	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Method References	Testing Location
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**BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN\_SOL\_S)**

Internally Developed Method

**Food Integrity Innovation-Madison**  
3301 Kinsman Blvd Madison, WI 53704 USA

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#### Method References

#### Testing Location

##### Elements by ICP Mass Spectrometry (ICP\_MS\_S)

##### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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).

##### Industrial Hemp Cannabinoid Profile (IHCBD\_S)

##### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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

##### Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST\_HEMP)

##### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 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.

##### Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST\_HEMP)

##### Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 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.

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**Testing Location(s)**

**Released on Behalf of Eurofins by**

**Food Integrity Innovation-Madison**

Eurofins Food Chemistry Testing Madison, Inc.  
3301 Kinsman Blvd  
Madison WI 53704  
800-675-8375

**Edward Ladwig - President Eurofins Food  
Chemistry Testing Madison**



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#### Analysis

#### Result

#### Non-O157 Shiga toxin-Producing Escherichia coli D

Non-O157 Shiga toxin-Producing Escherichia coli

Not Detected /25 g

#### Aerobic Plate Count

Aerobic Plate Count

100 CFU/g

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

Enterobacterial Count

<10 MPN/g

#### Salmonella USP

Salmonella

Absent /10 g

#### Yeast and Mold Count

Yeast Count

<100 CFU/g

Mold Count

<100 CFU/g

#### Preparatory Testing of Nutritional and Dietary Supplements

Bile-Tolerant Gram-Neg Bacteria Suitability Result

Pass\*\*

Salmonella Suitability Result

Pass\*\*

Yeast and Mold Suitability

Neutralization of the product is not applicable, due to the microbicidal activity of the product, it is not likely to contain specified microorganism.  
Pass\*\*

Aerobic Plate Suitability Result

#### 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

#### 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.

#### Non-O157 Shiga toxin-Producing Escherichia coli D (ICO\_EML\_NB)

#### EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

#### Preparatory Testing of Nutritional and Dietary Supplements (USPC\_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

#### 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****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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**Testing Location(s)****Released on Behalf of Eurofins by****Food Integ. Innovation-Madison NE****Shannon Jacoby - Business Unit Manager**

Eurofins Food Chemistry Testing US, Inc.  
2102 Wright Street  
Madison WI 53704  
800-675-8375

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