

Prepared for:

**Sleep Rapid Reset 300mg - 210132**
**Elixinol LLC**

Batch ID or Lot Number: <b>210132</b>	Test: <b>Potency</b>	Reported: <b>12/29/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
------------------------------------------	-------------------------	------------------------------	-----------------------------------------------------------------------


Matrix: Solution	Test ID: T000184020	Started: 12/28/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/22/2021 @ 01:23 PM	Sampler ID: N/A
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## CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.122	0.464	ND	ND	Density = 1.01g/mL
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.138	0.524	ND	ND	
Cannabidiolic acid (CBDA)	0.199	0.590	ND	ND	
Cannabidiol (CBD)	0.194	0.576	14.837	14.69	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.152	0.577	ND	ND	
Cannabinolic Acid (CBNA)	0.087	0.330	ND	ND	
Cannabinol (CBN)	0.040	0.151	1.554	1.54	
Cannabigerolic acid (CBGA)	0.127	0.484	ND	ND	
Cannabigerol (CBG)	0.030	0.116	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.108	0.409	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.105	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.083	0.246	ND	ND	
Cannabidivarin (CBDV)	0.046	0.136	0.071*	0.07*	
Cannabichromenic Acid (CBCA)	0.049	0.187	ND	ND	
Cannabichromene (CBC)	0.054	0.204	ND	ND	
<b>Total Cannabinoids</b>			<b>16.462</b>	<b>16.30</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			14.837	14.69	

  
 Sam Smith  
 29-Dec-2021  
 08:46 PM

  
 Ryan Weems  
 29-Dec-21  
 8:50 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02


Prepared for:

**Sleep Rapid Reset 300mg - 210132**
**Elixinol LLC**

Batch ID or Lot Number: <b>210132</b>	Test: <b>Pesticides</b>	Reported: <b>12/29/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: t000184021	Started: 12/28/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 12/22/2021 @ 01:23 PM	Sampler ID: N/A

## PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	44	ND	Paclobutrazol	41	ND
Acetamiprid	42	ND	Fipronil	40	ND	Permethrin	301	ND
Avermectin	388	ND	Flonicamid	39	ND	Phosmet	42	ND
Azoxystrobin	44	ND	Fludioxonil	287	ND	Prophos	284	ND
Bifenazate	41	ND	Hexythiazox	38	ND	Propoxur	41	ND
Boscalid	41	ND	Imazalil	291	ND	Pyridaben	299	ND
Carbaryl	34	ND	Imidacloprid	45	ND	Spinosad A	35	ND
Carbofuran	39	ND	Kresoxim-methyl	150	ND	Spinosad D	53	ND
Chlorantraniliprole	46	ND	Malathion	281	ND	Spiromesifen	282	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	290	ND
Clofentezine	291	ND	Methiocarb	43	ND	Spiroxamine 1	17	ND
Diazinon	282	ND	Methomyl	43	ND	Spiroxamine 2	22	ND
Dichlorvos	292	ND	MGK 264 1	170	ND	Tebuconazole	284	ND
Dimethoate	41	ND	MGK 264 2	115	ND	Thiacloprid	40	ND
E-Fenpyroximate	292	ND	Myclobutanil	38	ND	Thiamethoxam	39	ND
Etofenprox	41	ND	Naled	40	ND	Trifloxystrobin	40	ND
Etoxazole	304	ND	Oxamyl	1500	ND			

  
 Sam Smith  
 12/29/2021  
 9:54:00 AM

  
 Courtney Richards  
 12/29/2021  
 1:38:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

LOQ = Limit of Quantification  
 ppb = Parts per Billion

*Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.*



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Prepared for:

**Sleep Rapid Reset 300mg - 210132**
**Elixinol LLC**

Batch ID or Lot Number: <b>210132</b>	Test: <b>Metals</b>	Reported: <b>12/29/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Unit Co	Test ID: t000184023	Started: 12/28/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 12/22/2021 @ 01:23 PM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.65	ND	
Cadmium	0.046 - 4.63	ND	
Mercury	0.046 - 4.63	ND	
Lead	0.047 - 4.66	ND	


 Sam Smith  
 29-Dec-21  
 5:49 PM

PREPARED BY / DATE


 Ryan Weems  
 29-Dec-21  
 5:52 PM

APPROVED BY / DATE

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Prepared for:

**Sleep Rapid Reset 300mg - 210132**
**Elixinol LLC**


Batch ID or Lot Number: <b>210132</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>12/30/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
------------------------------------------	----------------------------------------	------------------------------	-----------------------------------------------------------------------


Matrix: Finished Product	Test ID: T000184022	Started: 12/27/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/22/2021 @ 01:23 PM	Sampler ID: N/A
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### MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	<LLOQ	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

  
 Sarah Henning  
 12/30/2021  
 2:44:00 PM

  
 Jackson Osaghae-Nosa  
 12/30/2021  
 3:10:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

#### Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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Eurofins Microbiology Laboratory (Colorado)

1371 Horizon Avenue  
Lafayette, CO 80026  
+1 720-758-6010  
Micro-Colorado@eurofinsUS.com

Alliance Nutra, LLC

**Client Code:** EI0000216

Emily Boyd  
638 S. Taylor Avenue  
Ste 500  
Louisville, CO 80027

**ANALYTICAL REPORT**

AR-21-EI-022048-01

**Received On:** 23Nov2021  
**Reported On:** 03Dec2021

**Eurofins Sample Code:** 397-2021-11230066      **Sample Registration Date:** 23Nov2021  
**Client Sample Code:** P624 - 210096      **Condition Upon Receipt:** acceptable, 21.3°C  
**Sample Description:** Liposome - Elixinol Sleep - 300 mg CBD  
**Sample Reference:** 30 mg CBN Vanilla Lavender 30 mL

FS0FZ - Glyphosate and AMPA	Reference	Accreditation	Completed	Sub
	No Reference	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
AMPA	<100 ng/g
Glyphosate	<100 ng/g

FSA3Y - Residual Solvents – Class 1, 2a, 2b, and 3	Reference	Accreditation	Completed	Sub
	USP <467>	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
1,1,1-Trichloroethane	<10 ppm
1,1-Dichloroethene	<8 ppm
1,2-Dichloroethane	<5 ppm
1,2-Dichloroethene	<1,870 ppm
1,2-Dimethoxyethane	<100 ppm
1,4-Dioxane	<380 ppm
Acetonitrile	<410 ppm
Benzene	<2 ppm
Carbon Tetrachloride	<4 ppm
Chlorobenzene	<360 ppm
Chloroform	<60 ppm
Cumene	<70.0 ppm
Cyclohexane	<3,880 ppm
Methanol	<3,000 ppm
Methylbutylketone	<50 ppm
Methylcyclohexane	<1,180 ppm
Methylene Chloride	<600 ppm

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Louisville, CO 80027

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**Sample Description:** Liposome - Elixinol Sleep - 300 mg CBD  
**Sample Reference:** 30 mg CBN Vanilla Lavender 30 mL

**FSA3Y - Residual Solvents – Class 1, 2a, 2b, and 3****Reference**  
USP <467>**Accreditation**  
ISO/IEC 17025:2017  
A2LA 2918.01**Completed**  
03Dec2021**Sub**  
2

Parameter	Result
n-Hexane	<290 ppm
Nitromethane	<50 ppm
Pyridine	<200 ppm
Tetrahydrofuran	<720 ppm
Tetralin	<96.0 ppm
Toluene	<890 ppm
Trichloroethylene	<80 ppm
Xylenes(O,M,P + EB)	<2,170 ppm
1-Butanol	<200 ppm
1-Propanol	<200 ppm
2-Butanol	<200 ppm
2-Methyl-1-propanol	<200 ppm
2-Propanol	<200 ppm
3-Methyl-1-butanol	<200 ppm
Acetone	<200 ppm
Anisole	<200 ppm
Diethyl Ether	<200 ppm
Ethanol	3,920 ppm
Ethyl Acetate	<200 ppm
Ethyl Formate	<500 ppm
Isobutyl Acetate	<200 ppm
Isopropyl Acetate	<200 ppm
Methyl Acetate	<200 ppm
Methylisobutylketone	<200 ppm
Methylethylketone	<200 ppm
tert-Butylmethyl Ether	<200 ppm
Acetic Acid Butyl Ester	<200 ppm
n-Heptane	<200 ppm
n-Pentane	<200 ppm
1-Pentanol	<200 ppm
Propyl Acetate	<200 ppm
Total Class 3 Residual Solvents	<5,000 ppm

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**Sample Description:** Liposome - Elixinol Sleep - 300 mg CBD  
**Sample Reference:** 30 mg CBN Vanilla Lavender 30 mL

FSMRH - Mycotoxins in Hemp	Reference	Accreditation	Completed	Sub
	Anal.Bioanal.Chem. (2012) 402:2675-2686	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Ochratoxin A	<1.00 ppb

FSPHC - Multi-Residue Analysis for hemp	Reference	Accreditation	Completed	Sub
	AOAC 2007.01 (mod.), EN 15662	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
Carbofuran-3-hydroxy-	<0.10 mg/kg
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
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
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

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 638 S. Taylor Avenue  
 Ste 500  
 Louisville, CO 80027

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**Sample Description:** Liposome - Elixinol Sleep - 300 mg CBD      **Sample Reference:**  
 30 mg CBN Vanilla Lavender 30 mL

FSPHC - Multi-Residue Analysis for hemp	Reference	Accreditation	Completed	Sub
	AOAC 2007.01 (mod.), EN 15662	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
Endosulfan sulfate	<0.20 mg/kg
Endosulfan I (alpha-isomer)	<0.20 mg/kg
Endosulfan II (beta-isomer)	<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 isomer)	<0.20 mg/kg
Fipronil	<0.10 mg/kg
Fipronil desulfinyl	<0.10 mg/kg
Fipronil sulfone	<0.10 mg/kg
Imazalil (any ratio of constituent isomers)	<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 (sum of constituent isomers)	<0.10 mg/kg
Naled (Dibrom)	<0.10 mg/kg
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 mg/kg
Spiromesifen	<0.10 mg/kg
Spirotetramat	<0.10 mg/kg



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 Louisville, CO 80027

# ANALYTICAL REPORT

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**Client Sample Code:** P624 - 210096      **Condition Upon Receipt:** acceptable, 21.3°C  
**Sample Description:** Liposome - Elixinol Sleep - 300 mg CBD      **Sample Reference:**  
 30 mg CBN Vanilla Lavender 30 mL

FSPHC - Multi-Residue Analysis for hemp	Reference	Accreditation	Completed	Sub
	AOAC 2007.01 (mod.), EN 15662	ISO/IEC 17025:2017 A2LA 2918.01	03Dec2021	2

Parameter	Result
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

UMZBK - Bile-Tolerant Gram Negative Bacteria - USP Chapter <62>	Reference	Completed	Sub
	U.S. Pharmacopeia Chapter 62	28Nov2021	1

Parameter	Result
Bile-Tolerant Gram Negative Bacteria	Not Detected per 10 g

Subcontracting partners:

- 1 - Eurofins Microbiology Laboratories (Lancaster), PA
- 2 - Eurofins Food Chemistry Testing US Madison, WI

Respectfully Submitted,



Kiley Ridgway  
 Operations Support Specialist II

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: [www.eurofinsus.com/terms\\_and\\_conditions.pdf](http://www.eurofinsus.com/terms_and_conditions.pdf) | √ Indicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

Prepared for:

**Sleep Rapid Reset 300mg - 210132**
**Elixinol LLC**


Batch ID or Lot Number: <b>210132</b>	Test: <b>Mycotoxins</b>	Reported: <b>12/30/21</b>	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000184025	Started: 12/29/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 12/22/2021 @ 01:23 PM	Sampler ID: N/A

### MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.4 - 126.3	ND	N/A
Aflatoxin B1	0.9 - 31.4	ND	
Aflatoxin B2	1 - 31.4	ND	
Aflatoxin G1	1 - 31.4	ND	
Aflatoxin G2	1.1 - 30.9	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	


 Ryan Weems  
 30-Dec-21  
 3:01 PM

PREPARED BY / DATE


 Sam Smith  
 30-Dec-21  
 3:12 PM

APPROVED BY / DATE

### Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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CDPHE Certified



Certificate #4329.02

## Certificate of Analysis

### Elixinol, LLC

10170 Church Ranch  
Westminster Colorado 80021 United States

<b>Sample Name:</b>	<b>Sleep Rapid Rest 300mg - 210132</b>	<b>Eurofins Sample:</b>	<b>11276356</b>
<b>Project ID</b>	ELIXINOL-20211221-0051	<b>Receipt Date</b>	22-Dec-2021
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	210132	<b>Login Date</b>	21-Dec-2021
<b>Sample Serving Size</b>	1 mL	<b>Date Started</b>	23-Dec-2021
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	13484-1684AF7E

#### Analysis

#### Result

##### Enterobacteriaceae Plate Count \*

Enterobacteriaceae

<10 CFU/g

##### Glyphosate and AMPA

Glyphosate

<100 ng/g

AMPA

<100 ng/g

#### Method References

#### Testing Location

##### Enterobacteriaceae Plate Count (EBPC)

##### EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

##### Glyphosate and AMPA (GLY\_AMPAS)

##### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

#### 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



2918.01

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\* This analysis or component is not ISO accredited.

Printed: 03-Jan-2022 11:03 pm

Page 1 of 1