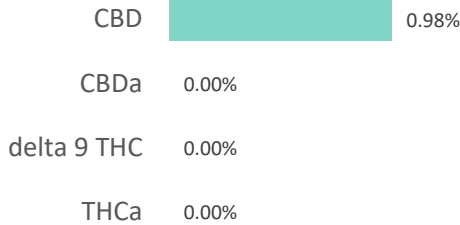
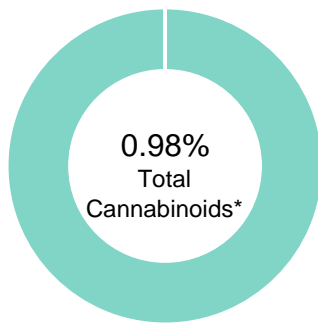


**960027**

<b>Batch ID:</b>	960027	<b>Test ID:</b>	1812406.001
<b>Reported:</b>	28-Jun-2019	<b>Method:</b>	TM14
<b>Type:</b>	Concentrate		
<b>Test:</b>	Potency		

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.08	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.04	0.00	0.0
Cannabidiolic acid (CBDA)	0.08	0.00	0.0
Cannabidiol (CBD)	0.05	0.98	9.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.04	0.00	0.0
Cannabinolic Acid (CBNA)	0.11	0.00	0.0
Cannabinol (CBN)	0.05	0.00	0.0
Cannabigerolic acid (CBGA)	0.07	0.00	0.0
Cannabigerol (CBG)	0.04	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.07	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.03	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.08	0.00	0.0
Cannabidivarin (CBDV)	0.04	0.00	0.0
Cannabichromenic Acid (CBCA)	0.06	0.00	0.0
Cannabichromene (CBC)	0.07	0.00	0.0
<b>Total Cannabinoids</b>		<b>0.98</b>	<b>9.80</b>
Total Potential THC**		0.00	0.00
Total Potential CBD**		0.98	9.80

**NOTES:**


N/A


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

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

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

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
**FINAL APPROVAL**

  
**Sam Smith**  
 28-Jun-2019  
 2:36 PM  
 PREPARED BY / DATE

  
**Greg Zimpfer**  
 28-Jun-2019  
 2:48 PM  
 APPROVED BY / DATE

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. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

960027

<b>Batch ID:</b>	N/A	<b>Test ID:</b>	3101377.007
<b>Reported:</b>	8-Jul-2019	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b><i>E. coli</i></b>	None Detected
<b><i>Salmonella</i></b>	None Detected

\* CFU/g = Colony Forming Unit per Gram

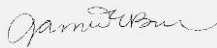
\*\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU


### NOTES:

Free from visual mold, mildew, and foreign matter  
TYM: None Detected  
Total Aerobic: None Detected

## FINAL APPROVAL



Jamie Bunker  
8-Jul-2019  
5:38 PM



Greg Zimpfer  
8-Jul-2019  
5:44 PM

PREPARED BY / DATE

APPROVED BY / DATE

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## Certificate of Analysis

### Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>960027</b>	<b>Eurofins Sample:</b>	<b>8544243</b>
<b>Project ID</b>	ELIXINOL-20190618-0042	<b>Receipt Date</b>	19-Jun-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	960027	<b>Login Date</b>	18-Jun-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	24-Jun-2019
		<b>Online Order</b>	13484-11CB9A91

Analysis	LOQ	Limit	Result	Pass/Fail
<b>Residual Solvents - Class 1, 2a, 2b and 3 *</b>				
1,1-Dichloroethene	8 ppm	8 ppm	<8 ppm	Pass
1,2-Dichloroethane	5 ppm	5 ppm	<5 ppm	Pass
Benzene	2 ppm	2 ppm	<2 ppm	Pass
Carbon Tetrachloride	4 ppm	4 ppm	<4 ppm	Pass
1,2-Dimethoxyethane	100 ppm	100 ppm	<100 ppm	Pass
1,4-Dioxane	380 ppm	380 ppm	<380 ppm	Pass
Acetonitrile	410 ppm	410 ppm	<410 ppm	Pass
Chlorobenzene	360 ppm	360 ppm	<360 ppm	Pass
Chloroform	60 ppm	60 ppm	<60 ppm	Pass
1,2-Dichloroethene	1870 ppm	1870 ppm	<1870 ppm	Pass
Cumene	70 ppm	70 ppm	<70.0 ppm	Pass
Cyclohexane	3880 ppm	3880 ppm	<3880 ppm	Pass
Methanol	3000 ppm	3000 ppm	<3000 ppm	Pass
Methylbutylketone	50 ppm	50 ppm	<50 ppm	Pass
Methylcyclohexane	1180 ppm	1180 ppm	<1180 ppm	Pass
Methylene Chloride	600 ppm	600 ppm	<600 ppm	Pass
n-Hexane	290 ppm	290 ppm	<290 ppm	Pass
Nitromethane	50 ppm	50 ppm	<50 ppm	Pass
Pyridine	200 ppm	200 ppm	<200 ppm	Pass
Tetrahydrofuran	720 ppm	720 ppm	<720 ppm	Pass
Tetralin	96 ppm	96 ppm	<96.0 ppm	Pass
Toluene	890 ppm	890 ppm	<890 ppm	Pass
Trichloroethylene	80 ppm	80 ppm	<80 ppm	Pass
Xylenes(O,M,P + EB)	2170 ppm	2170 ppm	<2170 ppm	Pass
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

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

### Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>960027</b>	<b>Eurofins Sample:</b>	<b>8544243</b>
<b>Project ID</b>	ELIXINOL-20190618-0042	<b>Receipt Date</b>	19-Jun-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	960027	<b>Login Date</b>	18-Jun-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	24-Jun-2019
		<b>Online Order</b>	13484-11CB9A91

Analysis	LOQ	Limit	Result	Pass/Fail
<b>Residual Solvents - Class 1, 2a, 2b and 3 *</b>				
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	>8000 ppm	Fail
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	Fail

Method References	Testing Location
-------------------	------------------

**Aerobic Plate Count (APC)**

Food Integ. Innovation-Madison NE

- FDA BAM Ch. 3
- AOAC 966.23
- CMMEF Ch. 8

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

Method References	Testing Location
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**Bromide per USP <561> (MEBR\_PKG) Food Integ. Innovation-Greenfield**

Community Reference Laboratory for Single Residue Methods, CVUA, Stuttgart, Schaglandstr 3/2, 70736 Fellbach, Germany.

T. Stijve, Gas Chromatographic Determination of Inorganic Bromide Residues - a Simplified Procedure, Dtsch. Lebenm Rundschr 77 99-101 (1981).

Deutsche Forschungsgemeinschaft (DFG), Manual of Pesticide Residue Analysis, Volume I by Verlag Chemie, 1987 ISBN 3-527-27010-8

**E.coli and Coliforms (Petrifilm) (ECCOLIPET) Food Integ. Innovation-Madison NE**

AOAC 991.14

**Elements by ICP Mass Spectrometry (ICP\_MS\_S) Food Integrity Innovation-Madison**

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).  
Pequette, 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).

**Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021) Food Integ. Innovation-Madison NE**

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.

**Glyphosate and AMPA (GLY\_AMPA\_S) Food Integ. Innovation-Greenfield**

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

**Industrial Hemp Cannabinoid Profile (IHCB\_D\_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

**Preparatory Testing of Nutritional and Dietary Supplements (USPN\_PT) Food Integ. Innovation-Madison NE**

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

### Method References

### Testing Location

#### Residual Solvents - Class 1, 2a, 2b and 3 (USPR\_S)

Food Integrity Innovation-Madison

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

#### Total Content of Dithiocarbamates (DTCs) expressed as CS<sub>2</sub> per USP <561> (DTC\_PKG)

Food Integ. Innovation-Greenfield

Hayama, T. and Takada, M., "Simple and Rapid method for the determination of Ethylenebisdithiocarbamate Fungicides in Fruits and Vegetables Using Liquid Chromatography with Tandem Mass Spectrometry," *Anal. Bioanal. Chem.*, 392:969-976 (2008).

#### USP <561> Pesticides (PS01\_SA\_S)

Food Integ. Innovation-Greenfield

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.

EP Chapter 2.8.13 Pesticide Residues, The European Pharmacopoeia

USP Chapter <561> Articles of Botanical Origin, The United States Pharmacopeia

*Please contact us* if you want a complete listing of all compounds determined during testing.

#### Yeast and Mold Plate Count (YM\_SPRD)

Food Integ. Innovation-Madison NE

Compendium of Methods for the Microbiological Examination of Foods, Yeasts and Molds, 4th Edition, Chapter 20, 2001, (Modified)

## Certificate of Analysis

Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

### Testing Location(s)

Released on Behalf of Eurofins by

#### Food Integrity Innovation-Boulder

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

Ian Laessig - Manager



AT-1816

#### Food Integ. Innovation-Greenfield

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671 S. Meridian Road  
Greenfield IN 46140  
800-675-8375

Karelyn Koehn - Manager



2918.06

#### Food Integrity Innovation-Madison

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

Edward Ladwig - Director



2918.01

#### Food Integ. Innovation-Madison NE

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

Richard Higby - Director



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## Certificate of Analysis

### Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>960027</b>	<b>Eurofins Sample:</b>	<b>8612755</b>
<b>Project ID</b>	ELIXINOL-20190708-0053	<b>Receipt Date</b>	13-Jun-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	960027	<b>Login Date</b>	13-Jun-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	13-Jun-2019
		<b>Online Order</b>	13484-11E5F813

#### Analysis

#### Result

##### Metals Analysis by ICP-MS

Arsenic	<70.7 ppb
Cadmium	<17.7 ppb
Lead	<17.7 ppb
Mercury	<8.84 ppb

##### Glyphosate and AMPA \*

Glyphosate	<100 ng/g
AMPA	<100 ng/g

##### Multi-Residue Analysis for hemp products - 60+ compounds

Matrix Type - To Determine Limit of Quantification (LOQ)	High-Fat Food Matrices
Abamectin	<0.05 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.05 mg/kg
Aldicarb sulfoxide	<0.05 mg/kg
Azoxystrobin	<0.05 mg/kg
Bifenazate	<0.05 mg/kg
Bifenthrin	<0.05 mg/kg
Carbaryl	<0.05 mg/kg
Carbofuran	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.05 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlorfenapyr	<0.05 mg/kg
Chlorpyrifos	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Endosulfan I (alpha-isomer)	<0.05 mg/kg

\* This analysis or component is not ISO accredited.

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Page 1 of 4



## Certificate of Analysis

### Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>960027</b>	<b>Eurofins Sample:</b>	<b>8612755</b>
<b>Project ID</b>	ELIXINOL-20190708-0053	<b>Receipt Date</b>	13-Jun-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	960027	<b>Login Date</b>	13-Jun-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	13-Jun-2019
		<b>Online Order</b>	13484-11E5F813

#### Analysis

#### Result

#### Multi-Residue Analysis for hemp products - 60+ compounds

Endosulfan II (beta-isomer)	<0.05 mg/kg
Endosulfan sulfate	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Etofenprox	<0.05 mg/kg
Etoxazole	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil	<0.05 mg/kg
Fipronil desulfinyl	<0.05 mg/kg
Fipronil sulfone	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imidacloprid	<0.05 mg/kg
Malathion	<0.05 mg/kg
Methiocarb	<0.05 mg/kg
Methiocarb sulfone	<0.05 mg/kg
Methiocarb sulfoxide	<0.05 mg/kg
Methomyl	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.05 mg/kg
Myclobutanil	<0.05 mg/kg
Naled (Dibrom)	<0.05 mg/kg
Paclobutrazol	<0.05 mg/kg
Permethrin (sum of isomers)	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and D)	<0.05 mg/kg
Spirodiclofen	<0.05 mg/kg
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg
Spirotetramat	<0.05 mg/kg
Spiroxamine (2 diastereoisomers)	<0.05 mg/kg
Tebuconazole	<0.05 mg/kg
Thiabendazole	<0.05 mg/kg

\* This analysis or component is not ISO accredited.

## Certificate of Analysis

### Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

<b>Sample Name:</b>	<b>960027</b>	<b>Eurofins Sample:</b>	<b>8612755</b>
<b>Project ID</b>	ELIXINOL-20190708-0053	<b>Receipt Date</b>	13-Jun-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	960027	<b>Login Date</b>	13-Jun-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	13-Jun-2019
		<b>Online Order</b>	13484-11E5F813

#### Analysis

#### Result

#### Multi-Residue Analysis for hemp products - 60+ compounds

Thiabendazole-5-hydroxy-	<0.05 mg/kg
Thiacloprid	<0.05 mg/kg
Trifloxystrobin	<0.05 mg/kg
Metolachlor	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg

#### Method References

#### Testing Location

#### Glyphosate and AMPA (GLY\_AMP\_A\_S)

Food Integ. Innovation-Greenfield

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

#### Metals Analysis by ICP-MS (ICP\_MS\_B\_S)

Food Integrity Innovation-Boulder

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.

#### Multi-Residue Analysis for hemp products - 60+ compounds (PEST\_HEMP)

Food Integ. Innovation-Greenfield

*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.

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Page 3 of 4

## Certificate of Analysis

Elixinol, LLC

555 Burbank St. Unit J  
Broomfield Colorado 80020 United States

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**Testing Location(s)**

**Released on Behalf of Eurofins by**

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**Karelyn Koehn - Manager**

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