



BioDiagnostics

Summary Report

Report No.:541309

507 Highland Drive
River Falls, WI, 54022
Phone: (715) 426-0246
Fax: (715) 426-0251
www.eurofinsus.com/biodiagnostics

Customer: APAX USA, Inc.
Office: CVS-Castle Rock, CO
Street Address: 4833 Front Street #415
City, State, Zip: Castle Rock, Colorado, 80104
Phone:

Date Reported: 10/29/2019
Date Completed: 10/29/2019
Date Received: 10/17/2019

BDI Sample Number: 119182096**Sample Description:** Soothing Sleep Lotion with CBD Lavender & Melatonin**Lot:** 4013**SKU#:****Batch#:****UPC#:****Product#:****Serving Size:****Sample Summary:** Pass

Test Requested	Results	Criteria	Pass/Fail	Comments
Cannabinoids (SC0G7) SUSRF01-HPLC	844.82mg/8fl oz	200mg/8fl oz	Pass	CBD = 3.72mg/g
Cannabinoids Second Analysis (SC0G7) SUSRF01-HPLC	830.70mg/8fl oz	200mg/8fl oz	Pass	CBD = 3.66mg/g
Aerobic Plate Count (UMPRE) SUSGA02-Interco	<10 CFU/g	<1x10 ⁵ CFU/g	Pass	
E. Coli (UM73J) SUSGA02-Interco	<10 CFU/g	ABSENT	Pass	
Listeria (UM7TC) SUSGA02-Interco	Not Detected per 25g	ABSENT	Pass	
Salmonella (UMN6C) SUSGA02-Interco	Not Detected per 25g	ABSENT	Pass	
Yeast and mold (UMN2K) SUSGA02-Interco	<10 CFU/g	<1x10 ⁴ CFU/g	Pass	
Heavy Metals (As, Cd, Hg, and Pb) (FS001-1) COVA-Interco	All <Action Limits	All <Action Limits	Pass	Action limits available upon request
Residual Pesticides (PEST_HEMP) COVA-Interco	All <Action Limits	All <Action Limits	Pass	Action limits available upon request
Residual Solvents (Acids Only) (USPR_ACD_S) COVA-Interco	Acetic Acid = 304ppm; Formic Acid <200ppm	All <Action Limits	Pass	Action limits available upon request
Residual Solvents (Non Volatile) (USPR_DIN_S) COVA-Interco	All <Action Limits	All <Action Limits	Pass	Action limits available upon request

Report Comment: Subsequent original reports to the summary report are independently paginated as received from the testing laboratory.
Pass/Fail criteria are defined by the CVS Health Transparency program with specification limits based on FDA guidelines for dietary supplements products.

Eurofins BioDiagnostics, Inc. warrants that it uses due care when performing tests for its customers. However, testing results are only reflective of the sample submitted by the customer. Eurofins BioDiagnostics, Inc. does not warrant the sample is representative of the lot from which the sample is drawn. Except for the testing services provided, Eurofins BioDiagnostics, Inc. makes no warranties or guarantees of any kind, expressed or implied, with respect to the services rendered.

Thank you for your business !

Emily Stressman

Emily Stressman

Assistant Sales and Project Manager

Certificate of Analysis

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Customer Name: APAX USA, Inc.
Office: CVS-Castle Rock, CO
Street Address: 4833 Front Street #415
City, State, Zip: Castle Rock, CO 80104
Phone:

Date Reported: 10/29/2019
Date Completed: 10/22/2019
Date Received: 10/17/2019
Testing Method: HPLC-DAD

Sample Information		Cannabinoid Name	ID	Weight %	Conc. mg/g	Conc. mg/8 fl oz
Sample No:	119182096-Rep 1	Cannabichromenic Acid	CBCA	ND	ND	ND
Crop:	Hemp, Industrial	Cannabicyclol	CBL	ND	ND	ND
Variety:	Soothing Sleep Lotion with CBD Lavender & Melatonin	Cannabidiol	CBD	0.372	3.72	844.82
Lot:	4013	Cannabidiolic Acid	CBDA	ND	ND	ND
Seed Size:		Cannabidivarin	CBDV	ND	ND	ND
Customer Tracking#:		Cannabidivarinic Acid	CBDVA	ND	ND	ND
Seeds Per Pound:		Cannabigerol	CBG	0.009	0.09	21.46
Batch:		Cannabigerolic Acid	CBGA	ND	ND	ND
LIMS:		Cannabichromene	CBC	0.019	0.19	43.82
IL:		Cannabinol	CBN	ND	ND	ND
		Cannabinolic Acid	CBNA	ND	ND	ND
Comments:	LOQ= 50ppm or 0.005 wt%	Δ^9 -Tetrahydrocannabinol	Δ^9 -THC	0.015	0.15	34.76
		Δ^8 -Tetrahydrocannabinol	Δ^8 -THC	ND	ND	ND
		Tetrahydrocannabinolic Acid A	THCA-A	ND	ND	ND
		Tetrahydrocannabivarin	THCV	ND	ND	ND
		Tetrahydrocannabivarinic Acid	THCVA	ND	ND	ND
Total Cannabinoids				0.416	4.16	944.87
Total THC*				0.015	0.15	34.76



*Total THC is calculated as the sum of Δ^9 -THC + Δ^8 -THC + (THCA-A * 0.877) + THCV + (THCV-A * 0.877).

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Joseph Zalusky

Joseph Zalusky
Approved Chemist, Gas Chromatography
American Oil Chemists' Society (AOCS)

Certificate of Analysis

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Street Address: 4833 Front Street #415
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Phone:

Date Reported: 10/29/2019
Date Completed: 10/22/2019
Date Received: 10/17/2019
Testing Method: HPLC

Sample Information		Cannabinoid Name	ID	Weight %	Conc. mg/g	Conc. mg/8 fl oz
Sample No:	119182096-Rep 2	Cannabichromenic Acid	CBCA	ND	ND	ND
Crop:	Hemp, Industrial	Cannabicyclol	CBL	ND	ND	ND
Variety:	Soothing Sleep Lotion with CBD Lavender & Melatonin	Cannabidiol	CBD	0.366	3.66	830.70
Lot:	4013	Cannabidiolic Acid	CBDA	ND	ND	ND
Seed Size:		Cannabidivarin	CBDV	ND	ND	ND
Customer Tracking#:		Cannabidivarinic Acid	CBDVA	ND	ND	ND
Seeds Per Pound:		Cannabigerol	CBG	0.006	0.06	14.42
Batch:		Cannabigerolic Acid	CBGA	ND	ND	ND
LIMS:		Cannabichromene	CBC	0.019	0.19	44.03
IL:		Cannabinol	CBN	ND	ND	ND
		Cannabinolic Acid	CBNA	ND	ND	ND
Comments:	LOQ= 50ppm or 0.005 wt%	Δ 9-Tetrahydrocannabinol	Δ 9-THC	0.016	0.16	37.46
		Δ 8-Tetrahydrocannabinol	Δ 8-THC	ND	ND	ND
		Tetrahydrocannabinolic Acid A	THCA-A	ND	ND	ND
		Tetrahydrocannabivarin	THCV	ND	ND	ND
		Tetrahydrocannabivarinic Acid	THCVA	ND	ND	ND
Total Cannabinoids				0.408	4.08	926.62
Total THC*				0.016	0.16	37.46



*Total THC is calculated as the sum of Δ 9-THC + Δ 8-THC + (THCA-A * 0.877) + THCV + (THCV-A * 0.877).

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Approved Chemist, Gas Chromatography
American Oil Chemists' Society (AOCS)

Eurofins Microbiology Laboratories (Los Angeles)

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+1 714 892 0208
Micro-LosAngeles@EurofinsUS.com

EUUSRF - 4-A25 - Eurofins BioDiagnostics
(River Falls)

EBDIRF Reports
507 Highland Dr.
River Falls, WI 54022

ANALYTICAL REPORT

AR-19-QR-022396-01

Client Code: QR0000282
PO Number: Hemp INTERCO

Received On: 10/18/2019
Reported On: 10/23/2019

Eurofins Sample Code: 111-2019-10180052

Client Sample Code: 119182096

Sample Description: Soothing Sleep Lotion with
CBD Lavender and
Melatonin

Sample Registration Date: 10/18/2019

Condition Upon Receipt: 18.5 °C acceptable

Sample Reference:

**UMPRE - Aerobic Plate Count - AOAC
966.23**

Reference
AOAC 966.23

Accreditation
A2LA ISO/IEC
17025:2005 3329.05

Analysis Completed
10/20/2019

Parameter

Aerobic Plate Count

Result

< 10 cfu/g

UMN2K - Yeast - BAM Chapter 18

Reference
FDA BAM Chapter 18

Accreditation
A2LA ISO/IEC
17025:2005 3329.05

Analysis Completed
10/23/2019

Parameter

Yeast

Result

< 10 cfu/g

Parameter

Moulds

Result

< 10 cfu/g

UM73J - Total Coliforms - AOAC 991.14

Reference
AOAC 991.14

Accreditation
A2LA ISO/IEC
17025:2005 3329.05

Analysis Completed
10/20/2019

Parameter

Coliforms

Result

< 10 cfu/g

Parameter

Escherichia coli

Result

< 10 cfu/g

**UMN6C - Salmonella spp. - AOAC
2004.03**

Reference
AOAC 2004.03

Analysis Completed
10/21/2019

Parameter

Salmonella

Result

Not Detected per 25 g

UM7TC - Listeria spp. - AOAC 2004.06

Reference
AOAC 2004.06

Analysis Completed
10/21/2019

Parameter

Listeria Species

Result

Not Detected per 25 g

EUUSRF - 4-A25 - Eurofins BioDiagnostics
(River Falls)

EBDIRF Reports
507 Highland Dr.
River Falls, WI 54022

ANALYTICAL REPORT

AR-19-QR-022396-01

Client Code: QR0000282
PO Number: Hemp INTERCO

Received On: 10/18/2019
Reported On: 10/23/2019

Respectfully Submitted,



Viridiana Castro
Microbiology Supervisor



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 | ✓ 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.

Certificate of Analysis

Eurofins BioDiagnostics, Inc.

507 Highland Drive
River Falls Wisconsin 54022 United States

Sample Name:	Soothing Sleep Lotion with CBD Lavender and Melatonin	Eurofins Sample:	8929720
Project ID	EUROFINS-20191017-1930	Receipt Date	18-Oct-2019
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis

Result

Elements by ICP Mass Spectrometry

Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	<5.00 ppb
Mercury	<5.00 ppb

Method References

Testing Location

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).

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - Director

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



2918.01

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Certificate of Analysis

Eurofins BioDiagnostics, Inc.

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PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

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

Matrix Type - To Determine Limit of Quantification (LOQ)

Spices - Botanicals - and other
Specialty Samples

Abamectin	<0.05 mg/kg
Abamectin	<0.050 mg/kg
Aldicarb	<0.050 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.050 mg/kg
Aldicarb sulfoxide	<0.05 mg/kg
Aldicarb sulfoxide	<0.050 mg/kg
Azoxystrobin	<0.050 mg/kg
Azoxystrobin	<0.05 mg/kg
Bifenazate	<0.05 mg/kg
Bifenazate	<0.050 mg/kg
Bifenthrin	<0.05 mg/kg
Bifenthrin	<0.050 mg/kg
Carbaryl	<0.05 mg/kg
Carbaryl	<0.050 mg/kg
Carbofuran	<0.050 mg/kg
Carbofuran	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.050 mg/kg
Chlorantraniliprole	<0.050 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, cis-	<0.050 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlordane, trans-	<0.050 mg/kg
Chlorfenapyr	<0.05 mg/kg
Chlorfenapyr	<0.050 mg/kg
Chlorpyrifos	<0.05 mg/kg
Chlorpyrifos	<0.050 mg/kg
Coumaphos	<0.050 mg/kg

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Project ID	EUROFINS-20191017-1930	Receipt Date	18-Oct-2019
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis	Result
Multi-Residue Analysis for hemp products - 60+ compounds	
Coumaphos	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cyfluthrin	<0.050 mg/kg
Cypermethrin	<0.050 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.050 mg/kg
Cyprodinil	<0.05 mg/kg
Cyprodinil	<0.050 mg/kg
Dichlorvos	<0.050 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Diclobutrazol	<0.050 mg/kg
Dipropetryn	<0.050 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Disulfoton	<0.050 mg/kg
Endosulfan I (alpha-isomer)	<0.050 mg/kg
Endosulfan I (alpha-isomer)	<0.05 mg/kg
Endosulfan II (beta-isomer)	<0.05 mg/kg
Endosulfan II (beta-isomer)	<0.050 mg/kg
Endosulfan sulfate	<0.05 mg/kg
Endosulfan sulfate	<0.050 mg/kg
Epoxiconazole	<0.050 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Ethiofencarb	<0.050 mg/kg
Etofenprox	<0.050 mg/kg
Etofenprox	<0.05 mg/kg
Etoxazole	<0.05 mg/kg
Etoxazole	<0.050 mg/kg
Fenoxycarb	<0.050 mg/kg
Fenoxycarb	<0.05 mg/kg

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Project ID	EUROFINS-20191017-1930	Receipt Date	18-Oct-2019
PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

Fenprothrin	<0.05 mg/kg
Fenprothrin	<0.050 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.050 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil	<0.050 mg/kg
Fipronil	<0.05 mg/kg
Fipronil desulfinyl	<0.05 mg/kg
Fipronil desulfinyl	<0.050 mg/kg
Fipronil sulfone	<0.050 mg/kg
Fipronil sulfone	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imazalil	<0.050 mg/kg
Imidacloprid	<0.050 mg/kg
Imidacloprid	<0.05 mg/kg
Malathion	<0.050 mg/kg
Malathion	<0.05 mg/kg
Methiocarb	<0.050 mg/kg
Methiocarb	<0.05 mg/kg
Methiocarb sulfone	<0.050 mg/kg
Methiocarb sulfone	<0.05 mg/kg
Methiocarb sulfoxide	<0.050 mg/kg
Methiocarb sulfoxide	<0.05 mg/kg
Methomyl	<0.050 mg/kg
Methomyl	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.050 mg/kg
Myclobutanil	<0.05 mg/kg
Myclobutanil	<0.050 mg/kg
Naled (Dibrom)	<0.050 mg/kg
Naled (Dibrom)	<0.05 mg/kg
Paclobutrazol	<0.050 mg/kg
Paclobutrazol	<0.05 mg/kg
Permethrin (sum of isomers)	<0.050 mg/kg

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PO Number	cvd	Receipt Condition	Ambient temperature
Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis

Result

Multi-Residue Analysis for hemp products - 60+ compounds

Permethrin (sum of isomers)	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Propoxur	<0.050 mg/kg
Spinetoram (spinosyns J and L)	<0.050 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and D)	<0.050 mg/kg
Spinosad (spinosyns A and D)	<0.05 mg/kg
Spirodiclofen	<0.050 mg/kg
Spirodiclofen	<0.05 mg/kg
Spiromesifen	<0.050 mg/kg
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg
Spiromesifen enol	<0.050 mg/kg
Spirotetramat	<0.050 mg/kg
Spirotetramat	<0.05 mg/kg
Spiroxamine (2 diastereoisomers)	<0.050 mg/kg
Spiroxamine (2 diastereoisomers)	<0.05 mg/kg
Tebuconazole	<0.050 mg/kg
Tebuconazole	<0.05 mg/kg
Thiabendazole	<0.05 mg/kg
Thiabendazole	<0.050 mg/kg
Thiabendazole-5-hydroxy-	<0.05 mg/kg
Thiabendazole-5-hydroxy-	<0.050 mg/kg
Thiacloprid	<0.050 mg/kg
Thiacloprid	<0.05 mg/kg
Trifloxystrobin	<0.05 mg/kg
Trifloxystrobin	<0.050 mg/kg
Metolachlor	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg

Certificate of Analysis

Eurofins BioDiagnostics, Inc.

507 Highland Drive

River Falls Wisconsin 54022 United States

Method References

Testing Location

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.

Testing Location(s)

Released on Behalf of Eurofins by

Food Integ. Innovation-Greenfield

Timothy McIntyre - Manager

Eurofins Food Chemistry Testing US, Inc.

671 S. Meridian Road

Greenfield IN 46140

800-675-8375



2918.06

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Certificate of Analysis

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Lot Number	119182096	Login Date	17-Oct-2019
Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents)				
2-Methoxyethanol	50 ppm	50 ppm	<50.0 ppm	Pass
2-Ethoxyethanol	160 ppm	160 ppm	<160 ppm	Pass
N,N-Dimethylformamide	880 ppm	880 ppm	<880 ppm	Pass
N,N-Dimethylacetamide	1090 ppm	1090 ppm	<1090 ppm	Pass
Dimethyl Sulfoxide	250 ppm	250 ppm	<250 ppm	Pass
Ethylene Glycol	620 ppm	620 ppm	<620 ppm	Pass
N-Methylpyrrolidone	530 ppm	530 ppm	<530 ppm	Pass
Formamide	220 ppm	220 ppm	<220 ppm	Pass
Sulfolane	160 ppm	160 ppm	<160 ppm	Pass

Method References	Testing Location
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Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents) (USPR_DI_S) United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2016). (Modified).	Food Integrity Innovation-Madison
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Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Madison Eurofins Food Chemistry Testing US, Inc. 3301 Kinsman Blvd Madison WI 53704 800-675-8375	Edward Ladwig - Director
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Sample Serving Size		Date Started	18-Oct-2019
		Online Order	14114-126B2E6F

Analysis

Result

Residual Solvents - Class 3, Acids Only

Acetic Acid	304 ppm
Formic Acid	<200 ppm

Method References

Testing Location

Residual Solvents - Class 3, Acids Only (USPR_ACD_S)

Food Integrity Innovation-Madison

- [1] United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified)
- [2] Zhou, D., Hou, Q., Liu, W., Ren, X., "Rapid determination of formic and acetic acids in biomass hydrosylate by headspace gas chromatography," Journal of Industrial and Engineering Chemistry, 47:281-287 (2017).

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing US, Inc.
3301 Kinsman Blvd
Madison WI 53704
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