

## Certificate of Analysis

### Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027 United States

<b>Sample Name:</b>	<b>A01328 - Composite</b>	<b>Eurofins Sample:</b>	<b>14276211</b>
<b>Project ID</b>	CHARLO_WEB-20240703-0200	<b>Receipt Date</b>	08-Jul-2024
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	0.5 mL	<b>Login Date</b>	03-Jul-2024
<b>Description</b>	60mg Organic Lemon Twist 30mL 60 MFG: July 1 2024EXP: July 1 2026CO Regulations	<b>Date Started</b>	08-Jul-2024
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	3
		<b>Online Order</b>	901-2024-E049037

Analysis	Result
<b>Industrial Hemp Cannabinoid Profile</b>	
CBDVA	None detected at detection limit of 0.0004 %
CBDV	0.234 mg/Serving Size
CBDA	0.400 mg/Serving Size
CBGA	None detected at detection limit of 0.0004 %
CBG	0.467 mg/Serving Size
CBD	35.2 mg/Serving Size
THCV	0.0255 mg/Serving Size
CBN	0.156 mg/Serving Size
Delta 9-THC	0.994 mg/Serving Size
Delta 8-THC	<0.0239 mg/Serving Size
THCA	None detected at detection limit of 0.0017 %
CBC	1.66 mg/Serving Size
THCVA	None detected at detection limit of 0.0004 %
CBNA	0.0157 mg/Serving Size
CBCA	0.0199 mg/Serving Size
CBL	0.0836 mg/Serving Size
Total Cannabinoids	39.3 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.994 mg/Serving Size
Total THC (THC + (THCA x 0.877))	59.6 mg/container
Total CBD (CBD + (CBDA x 0.877))	35.6 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	2130 mg/container
Compliance	Analysis performed for compliance testing
<b>Density by Gravimetric Analysis</b>	
Density	0.956 g/mL
<b>Elements by ICP Mass Spectrometry</b>	
Lead	<5.00 ppb

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Analysis	Result
<b>Elements by ICP Mass Spectrometry</b>	
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Mercury	<5.00 ppb
<b>Mycotoxins in Raw Materials</b>	
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
Sum of Aflatoxins B1, B2, G1, and G2	<2.00 ppb
<b>Glyphosate and AMPA</b>	
Glyphosate	<12.0 ng/Serve
AMPA	<23.9 ng/Serve

Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
<b>Category I Residual Solvent or Processing Chemical</b>			
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
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 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.			
<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

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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
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>Summed Group 1 (Butanes)</b>			
Isobutane (2-Methylpropane)		<500 ppm	
<b>Summed Group 2 (Heptanes)</b>			
2,2,3-Trimethylbutane		<50.0 ppm	
2,3-Dimethylpentane		<50.0 ppm	
2,4-Dimethylpentane		<50.0 ppm	
2-Methylhexane		<50.0 ppm	
3,3-Dimethylpentane		<50.0 ppm	
3-Ethylpentane		<50.0 ppm	
3-Methylhexane		<50.0 ppm	
<b>Summed Group 3 (Petroleum Ether)</b>			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	
<b>Summed Group 4 (Xylenes)</b>			

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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide</b>			
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.			
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
Abamectin	0.3 mg/kg	<0.10 mg/kg	Pass
Acephate	5 mg/kg	<0.01 mg/kg	Pass
Acequinocyl	4 mg/kg	<0.50 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.01 mg/kg	Pass
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.01 mg/kg	Pass
Bifenazate	5 mg/kg	<0.01 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.01 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.02 mg/kg	Pass
Carbofuran	0.1 mg/kg	<0.01 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.02 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.50 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.05 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.01 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.01 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.50 mg/kg	Pass
Cypermethrin	1 mg/kg	<0.50 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.02 mg/kg	Pass
Dichlorvos	0.1 mg/kg	<0.05 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.01 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.01 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.02 mg/kg	Pass
Etoxadole	1.5 mg/kg	<0.01 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.01 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.01 mg/kg	Pass
Fipronil	0.1 mg/kg	<0.01 mg/kg	Pass
Fonicamid	2 mg/kg	<0.02 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.01 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.05 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.01 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.01 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.15 mg/kg	Pass
Malathion	5 mg/kg	<0.01 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.01 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.01 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.02 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.02 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.01 mg/kg	Pass
Naled	0.5 mg/kg	<0.02 mg/kg	Pass
Oxamyl	0.2 mg/kg	<0.05 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.01 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.05 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.05 mg/kg	Pass
Piperonylbutoxide	8 mg/kg	<0.05 mg/kg	Pass
Prallethrin	0.4 mg/kg	<0.50 mg/kg	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.05 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.01 mg/kg	Pass

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	Regulations	<b>Online Order</b>	901-2024-E049037

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
Pyridaben	3 mg/kg	<0.02 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.05 mg/kg	Pass
Spinetoram	3 mg/kg	<0.01 mg/kg	Pass
Spinosad	3 mg/kg	<0.01 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.02 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.01 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.01 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.01 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.01 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.01 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.01 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.			
Allethrin		<0.10 mg/kg	
Atrazine		<0.01 mg/kg	
Buprofezin		<0.02 mg/kg	
Clothianidin		<0.02 mg/kg	
Cyhalothrin, lambda-		<0.50 mg/kg	
Cyprodinil		<0.01 mg/kg	
Deltamethrin		<0.10 mg/kg	
Dinotefuran		<0.05 mg/kg	
Diuron		<0.01 mg/kg	
Dodemorph (cis- and trans-)		<0.10 mg/kg	
Endosulfan I (alpha-isomer)		<0.10 mg/kg	
Endosulfan II (beta-isomer)		<0.10 mg/kg	
Endosulfan sulfate		<0.10 mg/kg	
Fensulfothion		<0.01 mg/kg	
Fenthion		<0.01 mg/kg	
Fenvalerate/Esfenvalerate (sum of isomers)		<0.10 mg/kg	



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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
Fluopyram		<0.01 mg/kg	
Iprodione		<0.50 mg/kg	
MGK 264 (sum of isomers)		<0.05 mg/kg	
Novaluron		<0.02 mg/kg	
Pirimicarb		<0.01 mg/kg	
Pyraclostrobin		<0.01 mg/kg	
Pyriproxyfen		<0.05 mg/kg	
Resmethrin (sum of isomers)		<0.05 mg/kg	
Spirodiclofen		<0.05 mg/kg	
Tebufenozide		<0.01 mg/kg	
Teflubenzuron		<0.02 mg/kg	
Tetrachlorvinphos		<0.01 mg/kg	
Tetramethrin (sum of isomers)		<1.0 mg/kg	
Thiabendazole		<0.05 mg/kg	
Thiophanate-methyl		<0.01 mg/kg	
Cyantraniliprole		<0.01 mg/kg	
Azadirachtin		<0.50 mg/kg	
Benzovindiflupyr		<0.01 mg/kg	
Etridiazole		<0.10 mg/kg	
Kinoprene		<1.25 mg/kg	
Methoprene		<1.0 mg/kg	
Phenothrin		<0.50 mg/kg	
Pyrethrin I		<0.05 mg/kg	
Pyrethrin II		<0.05 mg/kg	

Method References	Testing Location
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA

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Method References	Testing Location
<p><b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</b></p> <p>Internally Developed Method</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Density by Gravimetric Analysis (SPGP_S)</b></p> <p>NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b></p> <p>Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Glyphosate and AMPA (GLY_AMP_A_S)</b></p> <p>Internally developed method.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Industrial Hemp Cannabinoid Profile (IHCBD_CO_S)</b></p> <p>Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</b></p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</i></p> <p><i>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.</i></p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>




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Method References	Testing Location
<p><b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations (PEST_HEMP)</b></p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</i></p> <p><i>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.</i></p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Mycotoxins in Raw Materials (MYCO_REG_S)</b></p> <p>Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," Analytical and BioAnalytical Chemistry, 402:2675-2686 (2012).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>

Testing Location(s)	Released on Behalf of Eurofins by
<p><b>Food Integrity Innovation-Madison</b></p> <p>Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375</p>	<p><b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b></p> <div style="text-align: right;">  <p>2918.01</p> </div>

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.

Eurofins Microbiology Laboratory (Colorado)

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 Micro-Colorado@eurofinsUS.com

CW Hemp

**Client Code:** EI0000061  
**PO#:** QC 325

 Stephanie Fitzgerald  
 700 Tech Ct  
 Louisville, CO 80026

**ANALYTICAL REPORT**

AR-24-EI-015311-01

**Received On:** 08Jul2024  
**Reported On:** 13Jul2024

<b>Eurofins Sample Code:</b>	397-2024-07080041	<b>Sample Registration Date:</b>	08Jul2024
<b>Client Sample Code:</b>	A01328 - Composite	<b>Condition Upon Receipt:</b>	acceptable, 20.8°C
<b>Sample Description:</b>	60mg Organic Lemon Twist	<b>Sample Reference:</b>	

**Note:** Testing has been performed in accordance with CDPHE hemp regulations, and is for official compliance purposes. LOD and LOQ are as follows: APC, Coliform, YM counts: LOD = 10CFU/g if plated from 1:10 dilution; 1 CFU/g if plated directly. Salmonella Bacgene: LOD = 0.6 CFU/25g sample, STEC VirX LOD = 1.2 CFU/25g sample. Measurement Uncertainty is as follows: APC 5.58%; Coliform 3.76%; Yeast 5.98%; Mold 10.64%

**Weight** 235.4  
**Product type** oil

<b>UMDBM - Total Coliforms - AOAC 991.14</b>	<b>Reference</b> AOAC 991.14	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 10Jul2024
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<b>Parameter</b>	<b>Result</b>
Total Coliforms	< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 09Jul2024
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<b>Parameter</b>	<b>Result</b>
Salmonella spp.	Not Detected per 25 g

<b>UMMFL - Aerobic Plate Count - AOAC 966.23</b>	<b>Reference</b> AOAC 966.23	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 10Jul2024
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<b>Parameter</b>	<b>Result</b>
Aerobic Plate Count	< 10 cfu/g

<b>ZMJAF - Yeasts &amp; Moulds - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 13Jul2024
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<b>Parameter</b>	<b>Result</b>
Yeasts & Moulds	< 10 cfu/g

<b>ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203</b>	<b>Reference</b> AOAC-RI 121203	<b>Completed</b> 09Jul2024
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CW Hemp

Client Code: EI0000061  
PO#: QC 325

Stephanie Fitzgerald  
700 Tech Ct  
Louisville, CO 80026

# ANALYTICAL REPORT

AR-24-EI-015311-01

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Reported On: 13Jul2024

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<b>Client Sample Code:</b>	A01328 - Composite	<b>Condition Upon Receipt:</b>	acceptable, 20.8°C
<b>Sample Description:</b>	60mg Organic Lemon Twist	<b>Sample Reference:</b>	

**Note:** Testing has been performed in accordance with CDPHE hemp regulations, and is for official compliance purposes. LOD and LOQ are as follows: APC, Coliform, YM counts: LOD = 10CFU/g if plated from 1:10 dilution; 1 CFU/g if plated directly. Salmonella Bacgene: LOD = 0.6 CFU/25g sample, STEC VirX LOD = 1.2 CFU/25g sample. Measurement Uncertainty is as follows: APC 5.58%; Coliform 3.76%; Yeast 5.98%; Mold 10.64%

**Weight** 235.4  
**Product type** oil

<b>ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203</b>	<b>Reference</b> AOAC-RI 121203	<b>Completed</b> 09Jul2024
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Parameter	Result
Shiga-toxin Escherichia coli producer	Not Detected per 25 g

Respectfully Submitted,



Krystian Naope  
Laboratory Technician 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.