

Certificate of Analysis

BlackFin HEMP™

Sample Name:	990-2021-02160035	Eurofins Sample:	10310407
Project ID	BlackFin HEMP™	Receipt Date	17-Feb-2021
PO Number	N/A	Receipt Condition	Ambient temperature
Sample Serving Size	2 Softgel	Login Date	16-Feb-2021
Description	25mg 5NP-PC 5 percent Softgels	Date Started	17-Feb-2021
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	0.0

Analysis	Result	Result per Serving
Appearance *		
Appearance	Translucent, dark brown, oval softgel with little yellow liquid.	
Industrial Hemp Cannabinoid Profile		
CBDVA	<0.00250 %	<0.0243 mg/Serving Size
CBDV	0.0145 %	0.140 mg/Serving Size
CBDA	<0.00250 %	<0.0243 mg/Serving Size
CBGA	<0.00250 %	<0.0243 mg/Serving Size
CBG	<0.00250 %	<0.0243 mg/Serving Size
CBD	5.50 %	53.4 mg/Serving Size
THCV	<0.00250 %	<0.0243 mg/Serving Size
CBN	<0.00250 %	<0.0243 mg/Serving Size
Delta 9-THC	<0.00250 %	<0.0243 mg/Serving Size
Delta 8-THC	<0.00500 %	<0.0485 mg/Serving Size
THCA	<0.00250 %	<0.0243 mg/Serving Size
CBC	<0.00250 %	<0.0243 mg/Serving Size
THCVA	<0.00250 %	<0.0243 mg/Serving Size
CBNA	<0.00250 %	<0.0243 mg/Serving Size
CBCA	<0.00250 %	<0.0243 mg/Serving Size
CBL	<0.00250 %	<0.0243 mg/Serving Size
Total Cannabinoids	5.51 %	53.5 mg/Serving Size
Total THC (THC + (THCA x 0.877))	<0.00250 %	<0.0243 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	5.50 %	53.4 mg/Serving Size
Calculated Sample Weight *		
Entity Weight	0.7433 g	
Entity Fill Weight	0.4854 g	
Elements by ICP Mass Spectrometry		
Arsenic	<10.0 ppb	

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Analysis	Result	Result per Serving
Elements by ICP Mass Spectrometry		
Cadmium	<5.00 ppb	
Lead	<5.00 ppb	
Mercury	<5.00 ppb	
Residual Ethanol and Methanol *		
Methanol	<10.0 ppm	
Ethanol	14300 ppm	
Isopropanol	<10.0 ppm	

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Thiabendazole		<0.10 mg/kg	
Imazalil		<0.10 mg/kg	
Abamectin		<0.30 mg/kg	
Aldicarb		<0.10 mg/kg	
Carbaryl		<0.10 mg/kg	
Carbofuran		<0.10 mg/kg	
Cyfluthrin		<0.10 mg/kg	
Cypermethrin		<0.10 mg/kg	
Cyproconazole (2 diastereoisomers)		<0.10 mg/kg	
Dichlorvos		<0.10 mg/kg	
Diclobutrazol		<0.10 mg/kg	
Disulfoton		<0.10 mg/kg	
Ethiofencarb		<0.10 mg/kg	
Fenpropathrin		<0.10 mg/kg	
Methomyl		<0.10 mg/kg	
Metolachlor		<0.10 mg/kg	
Mevinphos (E- and Z-isomers)		<0.10 mg/kg	
Myclobutanil		<0.10 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Paclobutrazol		<0.10 mg/kg	
Propoxur		<0.10 mg/kg	
Pyrethrum (total)		<1.0 mg/kg	
Endosulfan sulfate		<0.20 mg/kg	
Naled (Dibrom)		<0.10 mg/kg	
Fenoxycarb		<0.10 mg/kg	
Carbofuran-3-hydroxy-		<0.10 mg/kg	
Aldicarb sulfone (Aldoxycarb)		<0.10 mg/kg	
Aldicarb sulfoxide		<0.10 mg/kg	
Methiocarb sulfone		<0.10 mg/kg	
Imidacloprid		<0.10 mg/kg	
Cyprodinil		<0.10 mg/kg	
Epoxiconazole		<0.10 mg/kg	
Chlorfenapyr		<0.10 mg/kg	
Trifloxystrobin		<0.10 mg/kg	
Spiroxamine (2 diastereoisomers)		<0.10 mg/kg	
Thiacloprid		<0.10 mg/kg	
Etofenprox		<0.10 mg/kg	
Coumaphos		<0.10 mg/kg	
Tebuconazole		<0.10 mg/kg	
Endosulfan I (alpha-isomer)		<0.20 mg/kg	
Endosulfan II (beta-isomer)		<0.20 mg/kg	
Chlordane, cis-		<0.10 mg/kg	
Chlordane, trans-		<0.10 mg/kg	
Etoxazole		<0.10 mg/kg	
Azoxystrobin		<0.10 mg/kg	
Bifenthrin		<0.10 mg/kg	
Dipropetryn		<0.10 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Fenvalerate/Esfenvalerate (sum of isomers)		<0.20 mg/kg	
Methiocarb		<0.10 mg/kg	
Spirodiclofen		<0.10 mg/kg	
Malathion		<0.10 mg/kg	
Permethrin (sum of isomers)		<0.10 mg/kg	
Spinosad (spinosyns A and D)		<0.10 mg/kg	
Spinetoram (spinosyns J and L)		<0.10 mg/kg	
Chlorpyrifos		<0.10 mg/kg	
Thiabendazole-5-hydroxy-		<0.10 mg/kg	
Methiocarb sulfoxide		<0.10 mg/kg	
Spirotetramat		<0.10 mg/kg	
Chlorantraniliprole		<0.10 mg/kg	
Fipronil desulfinyl		<0.10 mg/kg	
Fipronil sulfone		<0.10 mg/kg	
Fipronil		<0.10 mg/kg	
Spiromesifen		<0.10 mg/kg	
Bifenazate		<0.10 mg/kg	

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a and 2b				
1,1,1-Trichloroethane	10 ppm	10 ppm	<10 ppm	Pass
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

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Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 1, 2a and 2b				
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

Method References

Testing Location

Appearance (APPE)

The United States Pharmacopeia, Thirty Fourth Revision, 994, USP Convention, Inc., Rockville, MD (2011)(Modified).

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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Method References	Testing Location
<p>Elements by ICP Mass Spectrometry (ICP_MS_S)</p> <p>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).</p>	<p>Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p>Industrial Hemp Cannabinoid Profile (IHCBD_S)</p> <p>Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).</p>	<p>Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p>Multi-Residue Analysis for hemp products - 60+ compounds (PEST_HEMP)</p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01</i>, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</p> <p><i>CEN Standard Method EN 15662</i>: 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.</p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p>Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p>Residual Ethanol and Methanol (ETME_S)</p> <p>Ethanol/Methanol by Headspace with GC-FID.</p>	<p>Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA</p>
<p>Residual Solvents - Class 1, 2a and 2b (USPR_S)</p> <p>United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).</p>	<p>Food Integrity Innovation-Madison 3301 Kinsman Blvd Madison, WI 53704 USA</p>

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Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food
Chemistry Testing Madison

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



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