

## Certificate of Analysis

### Winged Nutrition, LLC

1829 SW 31st Avenue  
Hallandale Florida 33009 United States

<b>Sample Name:</b>	<b>Winged sleepy Gummy</b>	<b>Eurofins Sample:</b>	<b>8944021</b>
<b>Project ID</b>	WINGED_NUT-20191022-0001	<b>Receipt Date</b>	21-Oct-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	19090125160073	<b>Login Date</b>	22-Oct-2019
<b>Sample Serving Size</b>	6 g	<b>Date Started</b>	23-Oct-2019

Analysis	Result
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#### Industrial Hemp Cannabinoid Profile

CBDVA	<0.150 mg/Serving Size
CBDV	<0.150 mg/Serving Size
CBDA	<0.150 mg/Serving Size
CBGA	<0.150 mg/Serving Size
CBG	<0.150 mg/Serving Size
CBD	10.4 mg/Serving Size
THCV	<0.150 mg/Serving Size
CBN	<0.150 mg/Serving Size
Delta 9-THC	<0.150 mg/Serving Size
Delta 8-THC	<0.300 mg/Serving Size
THCA	<0.150 mg/Serving Size
CBC	<0.150 mg/Serving Size
Total Cannabinoids	10.4 mg/Serving Size
Total THC (THC + (THCA x 0.877))	<0.150 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	10.4 mg/Serving Size

#### Aerobic Plate Count \*

Aerobic Plate Count	<10 CFU/g
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#### E. coli \*

Escherichia Coli	Absent /10 g
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#### Pseudomonas aeruginosa USP \*

Pseudomonas Aeruginosa	Absent /10 g
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#### Salmonella USP \*

Salmonella	Absent /10 g
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#### Staphylococcus \*

Staphylococcus Aureus	Absent /10 g
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#### Yeast and Mold Count \*

Yeast Count	<10 CFU/g
Mold Count	<10 CFU/g

#### Preparatory Testing of Nutritional and Dietary Supplements \*

\* This analysis or component is not ISO accredited.

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**Preparatory Testing of Nutritional and Dietary Supplements \***

Aerobic Plate Suitability Result	Pass**
Yeast and Mold Suitability	Pass**
Salmonella Suitability Result	Pass**

**Preparatory Testing of Nutritional and Dietary Supplements - Retest \***

Staphylococcus Suitability Result	Pass**
Pseudomonas Suitability Result	Pass**
E. coli Suitability Result	Pass**

**Metals Analysis by ICP-MS**

Arsenic	<0.188 ppm
Cadmium	<0.0470 ppm
Lead	<0.0470 ppm
Mercury	<0.0235 ppm

Analysis	Limit	Result	Pass/Fail
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**Bromide per USP <561>**

Bromide, inorganic (calculated as Bromide Ion)	125 mg/kg	<125 mg/kg	Pass
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**Total Content of Dithiocarbamates (DTCs) expressed as CS2 per USP <561>**

Total Content of Dithiocarbamates (DTCs) expressed as CS2	2 mg/kg	<2 mg/kg	Pass
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**USP <561> Pesticides**

Acephate	0.1 mg/kg	<0.1 mg/kg	Pass
Alachlor	0.05 mg/kg	<0.05 mg/kg	Pass
Aldrin and dieldrin (sum of)	0.05 mg/kg	<0.05 mg/kg	Pass
Azinphos-ethyl	0.1 mg/kg	<0.1 mg/kg	Pass
Azinphos-methyl	1 mg/kg	<1 mg/kg	Pass
Bromophos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromophos-methyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromopropylate	3 mg/kg	<3 mg/kg	Pass
Chlordane (sum of cis- and trans- isomers and oxychlordane)	0.05 mg/kg	<0.05 mg/kg	Pass
Chlorfenvinphos	0.5 mg/kg	<0.5 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>USP &lt;561&gt; Pesticides</b>			
Chlorpyrifos-ethyl	0.2 mg/kg	<0.2 mg/kg	Pass
Chlorpyrifos-methyl	0.1 mg/kg	<0.1 mg/kg	Pass
Chlorthal-dimethyl	0.01 mg/kg	<0.01 mg/kg	Pass
Cyfluthrin (sum of isomers)	0.1 mg/kg	<0.1 mg/kg	Pass
Cyhalothrin, lambda-	1 mg/kg	<1 mg/kg	Pass
Cypermethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
DDT (sum of o,p'-DDT, p,p'-DDT, o,p'-DDE, p,p'-DDE, o,p'-DDD, and p,p'-DDD)	1 mg/kg	<1 mg/kg	Pass
Deltamethrin	0.5 mg/kg	<0.5 mg/kg	Pass
Diazinon	0.5 mg/kg	<0.5 mg/kg	Pass
Dichlofluanid	0.1 mg/kg	<0.1 mg/kg	Pass
Dichlorvos	1 mg/kg	<1 mg/kg	Pass
Dicofol	0.5 mg/kg	<0.5 mg/kg	Pass
Dimethoate and omethoate (sum of)	0.1 mg/kg	<0.1 mg/kg	Pass
Endosulfan (sum of isomers and endosulfan sulfate)	3 mg/kg	<3 mg/kg	Pass
Endrin	0.05 mg/kg	<0.05 mg/kg	Pass
Ethion	2 mg/kg	<2 mg/kg	Pass
Etrimphos	0.05 mg/kg	<0.05 mg/kg	Pass
Fenchlorphos (sum of fenchlorphos and fenchlorphos-oxon)	0.1 mg/kg	<0.1 mg/kg	Pass
Fenitrothion	0.5 mg/kg	<0.5 mg/kg	Pass
Fenpropathrin	0.03 mg/kg	<0.03 mg/kg	Pass
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxon sulfone and fensulfothion sulfone)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon sulfoxide, fenthion sulfone and fenthion sulfoxide)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenvalerate	1.5 mg/kg	<1.5 mg/kg	Pass
Flucythrinate	0.05 mg/kg	<0.05 mg/kg	Pass
Fluvalinate, tau-	0.05 mg/kg	<0.05 mg/kg	Pass
Fonofos	0.05 mg/kg	<0.05 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>USP &lt;561&gt; Pesticides</b>			
Heptachlor (sum of heptachlor and cis- and trans-heptachlor epoxides)	0.05 mg/kg	<0.05 mg/kg	Pass
Hexachlorobenzene	0.1 mg/kg	<0.1 mg/kg	Pass
Hexachlorocyclohexane isomers (other than gamma)	0.3 mg/kg	<0.3 mg/kg	Pass
Lindane (gamma-hexachlorocyclohexane)	0.6 mg/kg	<0.6 mg/kg	Pass
Malathion and malaoxon (sum of)	1 mg/kg	<1 mg/kg	Pass
Mecarbam	0.05 mg/kg	<0.05 mg/kg	Pass
Methacriphos	0.05 mg/kg	<0.05 mg/kg	Pass
Methamidophos	0.05 mg/kg	<0.05 mg/kg	Pass
Methidathion	0.2 mg/kg	<0.2 mg/kg	Pass
Methoxychlor	0.05 mg/kg	<0.05 mg/kg	Pass
Mirex	0.01 mg/kg	<0.01 mg/kg	Pass
Monocrotophos	0.1 mg/kg	<0.1 mg/kg	Pass
Parathion-ethyl and paraoxon-ethyl (sum of)	0.5 mg/kg	<0.5 mg/kg	Pass
Parathion-methyl and paraoxon-methyl (sum of)	0.2 mg/kg	<0.2 mg/kg	Pass
Pendimethalin	0.1 mg/kg	<0.1 mg/kg	Pass
Pentachloranisol	0.01 mg/kg	<0.01 mg/kg	Pass
Permethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
Phosalone	0.1 mg/kg	<0.1 mg/kg	Pass
Phosmet	0.05 mg/kg	<0.05 mg/kg	Pass
Piperonyl butoxide	3 mg/kg	<3 mg/kg	Pass
Pirimiphos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Pirimiphos-methyl (sum of pirimiphos-methyl and N-desethyl-pirimiphos-methyl)	4 mg/kg	<4 mg/kg	Pass
Procymidone	0.1 mg/kg	<0.1 mg/kg	Pass
Profenophos	0.1 mg/kg	<0.1 mg/kg	Pass
Prothiophos	0.05 mg/kg	<0.05 mg/kg	Pass
Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II)	3 mg/kg	<3 mg/kg	Pass
Quinalphos	0.05 mg/kg	<0.05 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
<b>USP &lt;561&gt; Pesticides</b>			
Quintozene (sum of quintozene, pentachloroaniline and methyl pentachlorophenyl sulfide)	1 mg/kg	<1 mg/kg	Pass
S-421	0.02 mg/kg	<0.02 mg/kg	Pass
Tecnazene	0.05 mg/kg	<0.05 mg/kg	Pass
Tetradifon	0.3 mg/kg	<0.3 mg/kg	Pass
Vinclozolin	0.4 mg/kg	<0.4 mg/kg	Pass

Method References	Testing Location
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**Aerobic Plate Count (USPC2021)**

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.

**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 Rundsch 77 99-101 (1981).

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

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Method References	Testing Location
<p><b>E. coli (USPE2022)</b></p> <p>USP Current revision, Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	Food Integ. Innovation-Madison NE
<p><b>Industrial Hemp Cannabinoid Profile (IHCBD_S)</b></p> <p>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</p>	Food Integrity Innovation-Boulder
<p><b>Metals Analysis by ICP-MS (ICP_MS_B_S)</b></p> <p>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.</p>	Food Integrity Innovation-Boulder
<p><b>Preparatory Testing of Nutritional and Dietary Supplements - Retest (USPA_PT)</b></p>	Food Integ. Innovation-Madison NE
<p><b>Preparatory Testing of Nutritional and Dietary Supplements - Retest (USPE_PT)</b></p>	Food Integ. Innovation-Madison NE
<p><b>Preparatory Testing of Nutritional and Dietary Supplements - Retest (USPU_PT)</b></p>	Food Integ. Innovation-Madison NE
<p><b>Preparatory Testing of Nutritional and Dietary Supplements (USPC_PT)</b></p>	Food Integ. Innovation-Madison NE
<p><b>Preparatory Testing of Nutritional and Dietary Supplements (USPM_PT)</b></p>	Food Integ. Innovation-Madison NE
<p><b>Preparatory Testing of Nutritional and Dietary Supplements (USPS_PT)</b></p>	Food Integ. Innovation-Madison NE

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Method References	Testing Location
<p><b>Pseudomonas aeruginosa USP (USPU2022)</b></p> <p>USP27-NF22 General Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p><b>Food Integ. Innovation-Madison NE</b></p>
<p><b>Salmonella USP (USPS2022)</b></p> <p>USP Current revision, Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p><b>Food Integ. Innovation-Madison NE</b></p>
<p><b>Staphylococcus (USPA2022)</b></p> <p>USP Current revision, Chapter 2022. To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix. **Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	<p><b>Food Integ. Innovation-Madison NE</b></p>
<p><b>Total Content of Dithiocarbamates (DTCs) expressed as CS<sub>2</sub> per USP &lt;561 &gt; (DTC_PKG)</b></p> <p>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," <i>Anal. Bioanal. Chem.</i>, 392:969-976 (2008).</p>	<p><b>Food Integ. Innovation-Greenfield</b></p>

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#### Method References

#### Testing Location

#### 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 Count (USPM2021)

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.



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#### Testing Location(s)

#### Released on Behalf of Eurofins by

##### Food Integrity Innovation-Boulder

Eurofins Food Chemistry Testing US, Inc.  
2830 Wilderness Pl  
Boulder CO 80301  
800-675-8375

Ian Laessig - Manager



AT-1816

##### Food Integ. Innovation-Greenfield

Eurofins Food Chemistry Testing US, Inc.  
671 S. Meridian Road  
Greenfield IN 46140  
800-675-8375

Timothy McIntyre - Manager



2918.06

##### Food Integ. Innovation-Madison NE

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

Shannon Jacoby - Business Unit Manager

These results apply to the sample as received and only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.