



## **CERTIFICATE OF ANALYSIS**

FDA #: 15910499580

<b>Product Name:</b>	Fulsolate™	<b>Source:</b>	Vegetarian
<b>Batch Number:</b>	121020	<b>Country of Origin:</b>	USA
<b>Mfg Date:</b>	December 10, 2018	<b>Expiration Date:</b>	December 30, 2020

ANALYSIS	SPECIFICATION	RESULTS	TEST METHODS
<b>Identification</b>	HPLC Match	Pass	HPLC
<b>Chemical Physical Control</b>			
Character/Appearance	Yellowish to White Powder	Pass	Visual
Color	Yellowish White	Pass	Visual
Odor	Characteristic	Pass	Organoleptic
Taste	Characteristic	Pass	Organoleptic
Mesh Size/Sieve Analysis	>100% through 40 mesh	Pass	40 mesh screen
Loss on Drying	≤10.0%	1.00%	AOAC
Ash Content	<8.0%	0.45%	2g/525C/3hrs
Heavy metals	<15 ppm Total	<2.5 ppm	ICP-MS
As:	<3 ppm	<1 ppm	ICP-MS
Pb:	<1 ppm	<1 ppm	ICP-MS
<b>Microbiology Control</b>			
Total plate count	<500,000 cfu/g	<22,000 cfu/g	FDA BAM
Total Yeast & Mold	<20,000 cfu/g	<120 cfu/g	FDA BAM
E.coli	Negative	Negative	USP <2022>
Salmonella	Negative	Negative	AOAC
Coliforms	<1,000 cfu/g	Negative	FDA BAM
GMO State	Non-GMO	Pass	Report
Pesticides	Meets USP Spec	Pass	GC-USP
Excipients/Carriers used	MCT/polysaccharide carbohydrate	Pass	Report
Endangered Spp.	Negative	Pass	Report
Extraneous Metal	Negative	Pass	Magnetic Screen
Irradiation	Negative	Pass	Report
<b>Packing &amp; Storage:</b>	Bulk boxes, double plastic liner.		
<b>Shelf Life:</b>	Two years unopened if sealed and stored away from moisture and direct sunlight.		
Approved by: Eric Liao 12/17/2018			

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## **CERTIFICATE OF ANALYSIS**

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### **CANNABINOID PROFILE**

<b>Component</b>	<b>Mass (%)</b>
<b>CBD</b>	<b>21.7800</b>
<b>CBDA</b>	<b>0.0000</b>
<b>CBG</b>	<b>0.1503</b>
<b>CBGA</b>	<b>0.0000</b>
<b>CBC</b>	<b>0.6627</b>
<b>CBN</b>	<b>0.1428</b>
<b>D9THC</b>	<b>N/D</b>
<b>THCA</b>	<b>N/D</b>
<b>Total Cannabinoids</b>	<b>22.7358</b>

### **TERPENE PROFILE**

<b>Component</b>	<b>Results (mg/g)</b>
<b>beta-Caryophyllene</b>	<b>0.0000</b>
<b>alpha-Humulene</b>	<b>0.0225</b>
<b>Caryophyllene oxide</b>	<b>0.0000</b>
<b>beta-Myrcene</b>	<b>0.0650</b>
<b>alpha-Pinene</b>	<b>0.0595</b>
<b>Terpinolene</b>	<b>0.0078</b>
<b>Humulene epoxide</b>	<b>0.0000</b>
<b>beta-Pinene</b>	<b>0.0860</b>
<b>e-beta-Ocimene</b>	<b>0.0735</b>
<b>Camphene</b>	<b>0.0286</b>
<b>d-Limonene</b>	<b>0.0160</b>
<b>Sabinene</b>	<b>0.0000</b>
<b>Isopulegol</b>	<b>0.0065</b>
<b>Linalool</b>	<b>0.0925</b>
<b>Ocimene</b>	<b>0.0169</b>
<b>Nerolidol</b>	<b>0.0000</b>
<b>alpha-Terpinene</b>	<b>0.0050</b>
<b>delta-3-Carene</b>	<b>0.0000</b>
<b>gamma-Terpinene</b>	<b>0.0038</b>
<b>p-Cymene</b>	<b>0.0000</b>
<b>beta-Caryophyllene</b>	<b>0.0950</b>
<b>alpha-Bisabolol</b>	<b>0.0000</b>
<b>Other</b>	<b>0.0000</b>

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## **CONCLUSIONS**

1. All microbial residues including Listeria, Monocytogenes, E-Coli, Fungi, Salmonella and Molds are all below detectable thresholds.
2. No heavy metal residues detected.
3. No flammable residues detected.
4. No chemical / pesticide residues detected.



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### **SOLUBILITY**

<b>Substance</b>	<b>Temperature</b>	<b>%</b>
Water	20c	96.2

### **ALLERGENS**

<b>Substance</b>	<b>Yes</b>	<b>No</b>
Crustacean Shellfish And Their Derivatives		X
Egg Or Egg Derivatives		X
Fish Or Fish Derivatives		X
Milk Or Milk Derivatives		X
Peanuts Or Peanuts Derivatives		X
Soy Or Soy Derivatives		X
Tree Nuts And Derivatives		X
Wheat Or Wheat Derivatives		X
Gluten (Wheat, Oats, Barley Or Rye)		X
Preservatives		X
Sulfites/Sulfates		X
Color Additives		X
Processing Aids		X
Corn And Derivatives	X	
Animal And Derivatives		X
Others (Sesame, Mustard, Artificial Flavors)		X

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## **ADDITIONAL INFORMATION**

Sanitizing Treatment:	Non-Irradiated and not treated with ETO.
Certification Status:	cGMP, Derived from organic sources.
Genetic Modification Status:	GMO free.
BSE/TSE Status:	BSE/TSE free.
Country of Origin:	United States.
Cultivated or wild crafted:	Cultivated.
Vegetarian Status:	Suitable for vegans and vegetarians.
Animal testing status:	Negative.

Because this is an herbal product, there is likely to be minor color variation because of geographical and seasonal variations of the raw material.

Natural products can be hygroscopic and tend to agglomerate. Sifting is suggested before use.

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