



CERTIFICATE OF ANALYSIS

FDA #: 15910499580

Product Name:	Fulsolate™	Source:	Vegetarian
Batch Number:	012521	Country of Origin:	USA
Mfg Date:	January 25, 2019	Expiration Date:	January 30, 2021

ANALYSIS	SPECIFICATION	RESULTS	TEST METHODS
Identification	HPLC Match	Pass	HPLC
Chemical Physical Control			
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
Microbiology Control			
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			
GMO State	Non-GMO	Pass	Report
Pesticides			
Pesticides	Meets USP Spec	Pass	GC-USP
Excipients/Carriers used			
Excipients/Carriers used	MCT/polysaccharide carbohydrate	Pass	Report
Endangered Spp.			
Endangered Spp.	Negative	Pass	Report
Extraneous Metal			
Extraneous Metal	Negative	Pass	Magnetic Screen
Irradiation			
Irradiation	Negative	Pass	Report
Packing & Storage:	Bulk boxes, double plastic liner.		
Shelf Life:	Two years unopened if sealed and stored away from moisture and direct sunlight.		
Approved by: Eric Liao 01/30/2019			

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3043 Alhambra Drive
Cameron Park, CA 95682

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SOLUBILITY

Substance	Temperature	%
Water	20c	96.2

ALLERGENS

Substance	Yes	No
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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CANNABINOID PROFILE

Component	Mass (%)
CBD	24.5000
CBDA	0.0000
CBG	0.1501
CBGA	0.0000
CBC	0.6626
CBN	0.1428
D9THC	N/D
THCA	N/D
Total Cannabinoids	25.4555

TERPENE PROFILE

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

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PESTICIDES

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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