

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

MANUFACTURER:

Sierra Sage Herbs
Attn: Chris Sparks
424 Main Street
Lyons, CO 80540



SAMPLE INFORMATION

Sample No.: 1035303
Product Name: First Defense
Matrix: Topical
Batch #: 1598348

Date Received: 10/03/2019
Date Reported: 10/11/2019

TEST SUMMARY

Cannabinoid Profile:
Microbiological Screen: ✔ Pass

Residual Solvent Screen: ✔ Pass
Heavy Metal Screen: ✔ Pass
Overall: ✔ Pass

CANNABINOID PROFILE

10/08/2019

Method: MF12D012
Instrument: Liquid Chromatography Diode Array Detector (LC-DAD)
Limit of Quantitation: 0.1 mg/g
Limit of Detection: 0.08 mg/g

Analyte	mg/g	%
88 THC	ND	ND
89 THC	ND	ND
THCV	ND	ND
THCVA	ND	ND
THCA	ND	ND
CBD	0.9	0.09
CBDA	ND	ND
CBC	ND	ND
CBCA	ND	ND
CBDV	ND	ND
CBG	ND	ND
CBGA	ND	ND
CBN	ND	ND
Total THC	ND	ND
Total CBD	0.9	0.09
Total Cannabinoids	0.9	0.09
Total Active Cannabinoids	0.9	0.09

Label Claims n/p

MICROBIOLOGICAL SCREEN ✔ Pass

10/09/2019

Analysis	Method	Finding
Salmonella	AOAC 2016.01	Negative/1g
STEC	EC Mug	Negative/1g

PESTICIDE RESIDUE SCREEN

10/08/2019

Method: MF 21P030
Instrument: Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)
Abamectin	0.04/0.10	ND
Acephate	0.04/0.10	ND
Acequinocyl	0.04/0.10	ND
Acetamiprid	0.04/0.10	ND
Aldicarb	0.04/0.10	ND
Azoxystrobin	0.04/0.10	ND
Bifenazate	0.04/0.10	ND
Bifenthrin	0.20/0.50	ND
Boscalid	0.04/0.10	ND
Captan	0.25/0.70	ND
Carbaryl	0.20/0.50	ND
Carbofuran	0.04/0.10	ND
Chlorantraniliprole	0.04/0.10	ND
Chlordane	0.04/0.10	ND
Chlorfenapyr	0.04/0.10	ND
Chlorpyrifos	0.04/0.10	ND

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)
Clofentazine	0.04/0.10	ND
Coumaphos	0.04/0.10	0.14
Cyfluthrin	0.70/2.00	ND
Cypermethrin	0.35/1.00	ND
Daminozide	0.04/0.10	ND
DDVP (Dichlorovous)	0.04/0.10	ND
Diazinon	0.04/0.10	ND
Dimethoate	0.04/0.10	ND
Dimethomorph	0.04/0.10	ND
Ethoprop(hos)	0.04/0.10	ND
Etofenprox	0.04/0.10	ND
Etoxazole	0.04/0.10	ND
Fenhexamid	0.04/0.10	ND
Fenoxycarb	0.04/0.10	ND
Fenpyroximate	0.04/0.10	ND
Fipronil	0.04/0.10	ND
Fonicamid	0.04/0.10	ND
Fludioxanil	0.04/0.10	ND
Hexythiazox	0.04/0.10	ND
Imazalil	0.04/0.10	ND
Imidacloprid	0.04/0.10	ND
Kresoxim Methyl	0.04/0.10	ND
Malathion	0.20/0.50	ND
Metalaxyl	0.04/0.10	ND
Methiocarb	0.04/0.10	ND
Methomyl	0.04/1.00	ND
Methyl parathion	0.04/0.10	ND
Mevinphos	0.04/0.10	ND
Myclobutanil	0.04/0.10	ND
Naled	0.50/1.50	ND
Oxamyl	0.20/0.50	ND
Paclbutrazol	0.04/0.10	ND
Pentachloronitrobenzene	0.04/0.10	ND
Permethrins	0.20/0.50	ND
Phosmet	0.04/0.10	ND
Piperonyl Butoxide	0.04/0.10	ND
Prallethrin	0.50/1.50	ND
Propiconazole	0.04/0.10	ND
Propoxur	0.04/0.10	ND
Pyrethrins	0.20/0.50	ND
Pyridaben	0.04/0.10	ND
Spinetoram	0.04/0.10	ND
Spinosad	0.04/0.10	ND
Spiromesifen	0.04/0.10	ND
Spirotetramat	0.04/0.10	ND
Spiroxamine	0.04/0.10	ND
Tebuconazole	0.04/0.10	ND
Thiacloprid	0.04/0.10	ND
Thiamethoxam	0.35/1.00	ND
Trifloxystrobin	0.04/0.10	ND

RESIDUAL SOLVENT SCREEN ✔ Pass

10/08/2019

Method: USP OVI<467>

Instrument: Gas Chromatography Mass Spectrometry (GC/MS)

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)
1,2-Dichloroethane	0.40/1.00	ND
Acetone	17/75	ND
Acetonitrile	1/6	ND
Benzene	0.40/1.00	ND
n-Butane	200/600	ND
Chloroform	0.40/1.00	ND
Ethanol	22/100	ND
Ethyl Acetate	9/40	ND
Ethyl Ether	11/50	ND
Ethylene Oxide	0.40/1.00	ND
n-Heptane	11/50	ND
n-Hexane	1/5	ND
Isopropyl Alcohol	11/50	ND
Methanol	6/25	ND
Methylene Chloride	0.40/1.00	ND
n-Pentane	17/75	ND
Propane	125/250	ND
Toluene	3/15	ND
Total Xylenes	1/3	ND
Trichloroethylene	0.40/1.00	ND

HEAVY METAL SCREEN ✔ Pass

10/08/2019

Method: MF 24E020

Instrument: ICP-MS

Analyte	LOD / LOQ (µg/g)	Finding (µg/g)
Arsenic	0.02/0.05	ND
Cadmium	0.02/0.05	ND
Mercury	0.02/0.05	ND
Lead	0.02/0.05	<LOQ

(-) = Not Tested, ND = None Detected, <LOQ = Below Limit of Quantitation, LOD = Limit of Detection

Reported by



Eric Tam
Senior Chemist



Scan to verify

RESEARCH & DEVELOPMENT