

CERTIFICATE OF ANALYSIS

Sample Name: GrowSafe Bio-Pesticide
Steep Hill ID: BK70867
Batch ID: 3006
Sample Type: Oil
Date Received: 7/25/2019
Pkg. Volume:
of Servings: 1.0
Density: 0.9391 g/mL

Microbial Impurities Results**7/27/2019**

Microbiological screening utilizing Pathogen Dx. (PDX; SOP-076)

Analyte	Result	Limit	LOQ
Aspergillus flavus	ND	ND	Not Detected in 1 gram
Aspergillus fumigatus	ND	ND	Not Detected in 1 gram
Aspergillus niger	ND	ND	Not Detected in 1 gram
Aspergillus terreus	ND	ND	Not Detected in 1 gram
E. coli (STEC)	ND	ND	Not Detected in 1 gram
Salmonella	ND	ND	Not Detected in 1 gram

ND: Not Detected NT: Not Tested LOQ: Limit of Quantitation LOD: Limit of Detection



Amy Goodwin, Ph.D
Laboratory Director
Date: 8/2/2019

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Residual Pesticides Results
8/5/2019

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS; SOP-070 + SOP-080) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	ND	0.3	0.0173	0.058	Fludioxonil	ND	30	0.0039	0.0130
Acephate	ND	5	0.0040	0.0132	Hexythiazox	ND	2	0.0038	0.0126
Acequinocyl	ND	4	0.023	0.078	Imazalil	ND	ND	0.0039	0.0130
Acetamiprid	ND	5	0.0040	0.0132	Imidacloprid	ND	3	0.0038	0.0126
Aldicarb	ND	ND	0.023	0.077	Kresoxim-methyl	ND	1	0.0037	0.0125
Azoxystrobin	ND	40	0.0040	0.0132	Malathion	ND	5	0.0038	0.0126
Bifenazate	ND	5	0.0040	0.0132	Metalaxyl	ND	15	0.0037	0.0125
Bifenthrin	ND	0.5	0.0106	0.035	Methiocarb	ND	ND	0.023	0.076
Boscalid	ND	10	0.0040	0.0132	Methomyl	ND	0.1	0.0037	0.0125
Captan	ND	5	0.096	0.32	Methyl Parathion	ND	ND	0.023	0.077
Carbaryl	ND	0.5	0.0039	0.0130	Mevinphos	ND	ND	0.0056	0.0186
Carbofuran	ND	ND	0.0039	0.0130	Myclobutanil	ND	9	0.0038	0.0126
Chlorantraniliprole	ND	40	0.0040	0.0132	Naled	ND	0.5	0.0038	0.0126
Chlordane	ND	ND	0.0138	0.046	Oxamyl	ND	0.2	0.0038	0.0126
Chlorfenapyr	ND	ND	0.023	0.077	Paclobutrazol	ND	ND	0.0038	0.0128
Chlorpyrifos	< LOQ	ND	0.0106	0.035	Pentachloronitrobenzene	ND	0.2	0.022	0.075
Clofentezine	ND	0.5	0.0040	0.0132	Permethrin	ND	20	0.0120	0.040
Coumaphos	ND	ND	0.0039	0.0130	Phosmet	ND	0.2	0.0037	0.0125
Cyfluthrin	ND	1	0.095	0.32	Piperonyl Butoxide	ND	8	0.0038	0.0126
Cypermethrin	ND	1	0.097	0.32	Prallethrin	ND	0.4	0.0038	0.0126
Daminozide	ND	ND	0.0106	0.035	Propiconazole	ND	20	0.0037	0.0125
Diazinon	ND	0.2	0.0040	0.0132	Propoxur	ND	ND	0.0038	0.0128
Dichlorvos	ND	ND	0.0039	0.0130	Pyrethrins	ND	1	0.025	0.082
Dimethoate	ND	ND	0.0039	0.0130	Pyridaben	0.0162	3	0.0037	0.0125
Dimethomorph	ND	20	0.0025	0.0082	Spinetoram	ND	3	0.0028	0.0093
Ethoprophos	ND	ND	0.0039	0.0130	Spinosad	ND	3	0.0037	0.0123
Etofenprox	ND	ND	0.0039	0.0130	Spiromesifen	ND	12	0.045	0.074
Etoxazole	ND	1.5	0.0040	0.0132	Spirotetramat	ND	13	0.0038	0.0126
Fenhexamid	ND	10	0.0040	0.0132	Spiroxamine	ND	ND	0.0039	0.0130
Fenoxycarb	ND	ND	0.0038	0.0128	Tebuconazole	< LOQ	2	0.0037	0.0125
Fenpyroximate	ND	2	0.0040	0.0133	Thiacloprid	ND	ND	0.0038	0.0128
Fipronil	ND	ND	0.0039	0.0130	Thiamethoxam	ND	4.5	0.0038	0.0126
Flonicamid	ND	2	0.0040	0.0132	Trifloxystrobin	ND	30	0.0037	0.0125

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Amy Goodwin, Ph.D.
 Laboratory Director
 Date: 8/5/2019

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CERTIFICATE OF ANALYSIS

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Heavy Metals Results

7/27/2019

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072) - **Limit units: µg/g**

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Arsenic	ND	1.5	0.0074	0.021
Cadmium	ND	0.5	0.0074	0.023
Lead	0.057	0.5	0.0037	0.0121
Mercury	ND	3	0.0056	0.0167

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Amy Goodwin, Ph.D
Laboratory Director
Date: 8/2/2019

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Mycotoxin Results

8/5/2019

Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070) - **Limit units: µg/kg**

Analyte	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Aflatoxin B1	ND		1.11	3.7
Aflatoxin B2	ND		2.4	7.9
Aflatoxin G1	ND		1.11	3.7
Aflatoxin G2	ND		0.42	1.40
Ochratoxin A	ND	20	2.4	7.9
Total Aflatoxins	ND	20	2.4	7.9

ND: Not Detected NT: Not Tested LOQ: Limit of Quantitation LOD: Limit of Detection



Amy Goodwin, Ph.D
Laboratory Director
Date: 8/6/2019

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