



Certificate of Analysis

PASSED

11018 OLD ST AUGUSTINE ROAD
JACKSONVILLE, FL, 32999, USA
Telephone: (586) 339-0718
Email: ciannbommarito@gmail.com

Sample : GA00116002-003

Harvest/LOT ID: n/a

Batch# : n/a

Sampled : 01/16/20

Ordered : 01/16/20

Sample Size Received : 30

Total Weight/Volume : 30

Completed : 01/22/20 **Expires:** 01/22/21

Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
BOSCALID	0.01	PPM	3	ND	PHOSMET	0.01	ppm	0.2	ND
DIMETHOATE	0.01	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ABAMECTIN B1A	0.02	ppm	0.3	ND	PROPICONAZOLE	0.01	ppm	1	ND
CIS-PERMETHRIN	0.05	ppm	1	ND	PROPOXUR	0.01	ppm	0.1	ND
SPINETORAM	0.01	PPM	3	ND	PYRETHRIN I	0.01	ppm	1	ND
ACEPHATE	0.001	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
FENOXYCARB	0.01	ppm	0.1	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	3	ND
DIMETHOMORPH	0.005	ppm	3	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.02	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND	SPIROXAMINE	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
ETOFENPROX	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	THIAMETHOXAM	0.01	ppm	1	ND
ALDICARB	0.02	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
ETOXAZOLE	0.01	ppm	1.5	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	3	ND					
CARBARYL	0.01	ppm	0.5	ND					
CARBOFURAN	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
CHLORANTRANILIPROLE	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	2	ND					
CLOFENTEZINE	0.01	ppm	0.5	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
METALAXYL	0.01	ppm	3	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.1	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
DIAZANON	0.01	ppm	0.2	ND					
CYPERMETHRIN	0.01	ppm	1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
TRANS-PERMETHRIN	0.05	ppm	1	ND					



Pesticides

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Analyzed by 635	Weight 1.0021g	Extraction date 01/21/20 09:01:58	Extracted By 635
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070 , SOP.T.30.065, SOP.T.40.070 Analytical Batch - GA009560PES Instrument Used : GA-LCMS Running On : <div>Batch Date : 01/21/20 08:56:39</div>			
Reagent	Dilution	Consums. ID	
010020.R002 011320.R001 011420.R007	10	280654829 vav-09-1020 6970145500298 00285154	
Pesticide screen is performed using LC-MS and/or GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and GCMSMS. SOP.T.40.065/SOP.T.40.066/SOP.T.40.070 Procedure for Pesticide Quantification Using LCMS and GCMS). * Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.			

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Rob Bruton
Lab Director

State License # CMTL-0001
ISO Accreditation # ISO/IEC
17025:2017 Accreditation
PJLA-Testing 97164


Signature

01/22/20

Signed On



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Sample Method : SOP Client Method

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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	120	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	96	ppm	2000	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
ETHANOL	90	ppm	5000	PASS	ND
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
DICHLOROMETHANE	11.25	ppm	125	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
ETHYL ACETATE	36	ppm	400	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
HEPTANE	45	ppm	500	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND

Analyzed by 508	Weight 0.0254g	Extraction date 01/16/20 01:01:37	Extracted By 508
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Analysis Method -SOP.T.40.032
Analytical Batch -GA009500SOL
Instrument Used : GA-Headspace GCMS Solvent
Running On :
Batch Date : 01/16/20 13:54:45

Reagent	Dilution	Consums. ID
		24154107

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS).



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Harvest/LOT ID: n/a

Batch# : n/a

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Sample Method : SOP Client Method

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	Microbials	PASSED
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Analyte	LOD	Result	Action Level (cfu/g)
ASPERGILLUS_FLAVUS		not present in 1 gram.	
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	
ASPERGILLUS_NIGER		not present in 1 gram.	
ASPERGILLUS_TERREUS		not present in 1 gram.	
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041

Analytical Batch -GA009534MIC Batch Date : 01/17/20

Instrument Used : PathogenDX PCR_Array Scanner

Running On :

Analyzed by	Weight	Extraction date	Extracted By
935	1.0037g	01/17/20	935

Reagent	Dilution	Consums. ID	Consums. ID	Consums. ID
112019.05	10	A05	010C	50AX23319
		A03	944C4-944J	2804019
		A04	1175-956-306	18453
		2	941C-941AM	013
		82003-820	944C6	SG192A
		180928119C	021	

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing. Pour-plating is used for quantitation and confirmation, Total Yeast and Mold has an action limit of 100,000 CFU.

	Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	
AFLATOXIN G1	0.002	ppm	ND	
AFLATOXIN B2	0.002	ppm	ND	
AFLATOXIN B1	0.002	ppm	ND	
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL AFLATOXINS	0.02	PPM	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065

Analytical Batch -GA009561

Instrument Used : GA-LCMS

Running On :

Batch Date : 01/21/20 08:57:23

Analyzed by	Weight	Extraction date	Extracted By
635	1.0021g	01/21/20 08:01:43	635

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

	Heavy Metals	PASSED
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Reagent	Dilution	Consums. ID
011320.R14	50	105576-16
121619.R03		
041519.05		
111519.05		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	ND	1.5
CADMIUM	0.01	PPM	ND	0.5
LEAD	0.01	PPM	ND	0.5
MERCURY	0.01	PPM	ND	3

Analyzed by	Weight	Extraction date	Extracted By
973	0.5116g	01/17/20 09:01:44	650

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -GA009516HEA

Instrument Used : GA-ICPMS 2030

Running On :

Batch Date : 01/17/20 09:13:29

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

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Rob Bruton
Lab Director

State License # CMTL-0001
ISO Accreditation # ISO/IEC
17025:2017 Accreditation
PJLA-Testing 97164


Signature

01/22/20

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