



# CERTIFICATE OF ANALYSIS

Customer: Viobin, LLC - Michigan City, IN 46360

Order #: 706928  
 Batch #: Viobin Lot 9-26-20  
 Order Date: 10/07/2019  
 Collection Date: 10/07/2019  
 Report Date: 10/14/2019

Specimen Type: Extract  
 Description: 1500mg Guava Lime with WGO  
 Extracted From: TF-090319  
 Method: SOP-3

Initial Gross Weight: 17475.00(mg)  
 Specimen Weight: 113.17(mg)  
 Density: 0.9598(g/ml)

## Potency

(HPLC)

Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	2.227	0.232	0.001	CBCA	ND	0.001	0.001	CBD	50.390	5.250	0.001
CBDA	ND	0.001	0.001	CBDV	ND	0.001	0.001	CBDVA	ND	0.001	0.001
CBG	0.269	0.028	0.001	CBGA	ND	0.001	0.001	CBL	ND	0.001	0.001
CBN	ND	0.001	0.001	CBNA	0.437	0.046	0.001	Delta-8-THC	ND	0.001	0.001
Delta-9-THC	1.328	0.138	0.001	THCA-A	ND	0.001	0.001	THCV	ND	0.001	0.001
THCVA	ND	0.001	0.001	Total CBD	50.390	5.250	0.001	Total THC	1.328	0.138	0.001

## Pesticides ( Passed )

(LCMS/MS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Abamectin	0.500	<LOQ	0.100	Acephate	0.400	<LOQ	0.100	Acequinocyl	2.000	<LOQ	0.750
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100	Azoxystrobin	0.200	<LOQ	0.100
Bifenazate	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100	Boscalid	0.400	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100	Chlorantraniliprole	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentazine	0.200	<LOQ	0.100	Cypermethrin	1.000	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100	Dichlorvos	0.100	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethoprophos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Flonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100	Hexythiazox	1.000	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100	Kresoxim Methyl	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metalaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MGK-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100	Paclbutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	0.200	<LOQ	0.100	Phosmet	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100	Propiconazole	0.400	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pyrethrins	1.000	<LOQ	0.100	Pyridaben	0.200	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100	Spiromesifen	0.200	<LOQ	0.100
Spirotetramat	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100	Tebuconazole	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100	Trifloxystrobin	0.200	<LOQ	0.100

Thomas Farrell, MD  
Lab Director

\* Total CBD = CBD + (CBD-A \* 0.877). Total THC = THCA-A \* 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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Initial Gross Weight: 17475.00(mg)  
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Density: 0.9598(g/ml)

## Terpenes

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene	ND		0.001	Alpha-Bisabolol	ND		0.001	Alpha-Pinene	ND		0.002
Alpha-Terpinene	ND		0.001	Alpha-Terpineol	ND		0.001	Aromadendrene	ND		0.001
Beta-Myrcene	ND		0.001	Beta-Pinene	ND		0.001	Camphene	ND		0.001
Fenchol	ND		0.002	Gamma-Terpinene	ND		0.001	Gamma-Terpineol	ND		0.002
Geraniol	ND		0.001	Guaiol	ND		0.001	Humulene	ND		0.001
Isopulegol	ND		0.001	Linalool	ND		0.001	Nerolidol-1	ND		0.001
Nerolidol-2	ND		0.001	Ocimene-1	ND		0.001	Ocimene-2	ND		0.001
P-Cymene	ND		0.001	R-Limonene	ND		0.000	Terpinolene	ND		0.001
Trans-Caryophyllene	ND		0.001								

## Heavy Metals ( Passed )

(ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000								

## Mycotoxins ( Passed )

(LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	6.000	Aflatoxin B2		<LOQ	6.000	Aflatoxin G1		<LOQ	6.000
Aflatoxin G2		<LOQ	6.000	Aflatoxin Total	20.000	<LOQ	6.000	Ochratoxin A	20.000	<LOQ	12.000

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## Pathogenic Microbiology ( Passed )

(Micro Array)

Analyte	Result	Analyte	Result	Analyte	Result
Aspergillus Flavus	Absence	Aspergillus Fumigatus	Absence	Aspergillus Niger	Absence
Aspergillus Terreus	Absence	Salmonella	Absence	STEC E. Coli	Absence

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