

## CERTIFICATE OF ANALYSIS



### SAMPLE INFORMATION

Sample Name: VVSE: GRAPE TINCTURE      Sample Matrix: Tincture  
Sample Id: 69172      Batch Id: VVS.SY.GP-001  
Collected: 03/12/2019 15:00      Received: 03/12/2019 17:53  
Serving Size: 5 DROPS      Serv. Per Sample: 400  
Batch Size: 50 units      Sample Size: 2 units  
Overall Result: **Pass**

### DISTRIBUTOR INFO

Business Name: Green Rose Green Leaf Care, Inc.  
Street Address: 1325 Saint Andrew Pl. E      City: Santa Ana  
State: CA      Zip Code: 92705  
License: C11-18-0000671-TEMP

### MANUFACTURER INFO

Business Name: Stone Service Inc. DBA VVSE  
Street Address: 300 E San Antonio Dr      City: King City  
State: CA      Zip Code: 93930  
License: CDPH-T00002117

## CANNABINOID ANALYSIS

**i** Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: 2.562 mg per serving (8.670 mg/mL) (0.7225 %)  
TOTAL CBD: 0.0080 mg per serving (0.0271 mg/mL) (0.0023 %)  
TOTAL CANNABINOIDS: 2.784 mg per serving (9.423 mg/mL) (0.7852 %)

TEST TYPE RESULT: N/A  
UNIT OF MEASUREMENT: Milligrams per Milliliter(mg/mL)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
D9THC	8.670 mg/mL (0.7225 %)	0.0020	0.0050	D8THC	ND	0.0020	0.0050	
THCa	ND	0.0020	0.0050	CBG	0.3191 mg/mL (0.0266 %)	0.0020	0.0050	
CBN	0.1943 mg/mL (0.0162 %)	0.0020	0.0050	CBD	0.0271 mg/mL (0.0023 %)	0.0020	0.0050	
CBDa	ND	0.0020	0.0050	CBGa	ND	0.0020	0.0050	
THCv	0.0740 mg/mL (0.0062 %)	0.0020	0.0050	CBC	0.1383 mg/mL (0.0115 %)	0.0020	0.0050	
CBDv	ND	0.0020	0.0050					

### ADDITIONAL INFORMATION

Method: SOP-TECH-001  
Instrument: HPLC-DAD

Sample Prepped 03/15/2019 14:23  
Sample Analyzed 03/15/2019 16:38

Sample Approved 03/16/2019 16:38



CERTIFICATE OF ANALYSIS

 CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**  
 UNIT OF MEASUREMENT: **Micrograms per Gram(ug/g)**

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Acephate	ND	0.0200	0.0400	5.000 <b>Pass</b>	Acequinocyl	ND	0.0200	0.0400	4.000 <b>Pass</b>
Acetamiprid	ND	0.0200	0.0400	5.000 <b>Pass</b>	Aldicarb	ND	0.0200	0.0400	0.0 <b>Pass</b>
Azoxystrobin	ND	0.0200	0.0400	40.00 <b>Pass</b>	Bifenazate	ND	0.0200	0.0400	5.000 <b>Pass</b>
Bifenthrin	ND	0.0200	0.0400	0.5000 <b>Pass</b>	Boscalid	ND	0.0200	0.0400	10.00 <b>Pass</b>
Carbaryl	ND	0.0200	0.0400	0.5000 <b>Pass</b>	Carbofuran	ND	0.0200	0.0400	0.0 <b>Pass</b>
Chlorantraniliprole	ND	0.0200	0.0400	40.00 <b>Pass</b>	Chlorfenapyr	ND	0.0200	0.0400	0.0 <b>Pass</b>
Chlorpyrifos	ND	0.0200	0.0400	0.0 <b>Pass</b>	Clofentezine	ND	0.0200	0.0400	0.5000 <b>Pass</b>
Cypermethrin	ND	0.0400	0.1000	1.000 <b>Pass</b>	Daminozide	ND	0.0200	0.0400	0.0 <b>Pass</b>
Dichlorvos	ND	0.0200	0.0400	0.0 <b>Pass</b>	Diazinon	ND	0.0200	0.0400	0.2000 <b>Pass</b>
Dimethoate	ND	0.0200	0.0400	0.0 <b>Pass</b>	Ethoprophos	ND	0.0200	0.0400	0.0 <b>Pass</b>
Etofenprox	ND	0.0200	0.0400	0.0 <b>Pass</b>	Etoxazole	ND	0.0200	0.0400	1.500 <b>Pass</b>
Fenoxycarb	ND	0.0200	0.0400	0.0 <b>Pass</b>	Fenpyroximate	ND	0.0200	0.0400	2.000 <b>Pass</b>
Fipronil	ND	0.0200	0.0400	0.0 <b>Pass</b>	Fonicamid	ND	0.0200	0.0400	2.000 <b>Pass</b>
Fludioxonil	ND	0.0200	0.0400	30.00 <b>Pass</b>	Hexythiazox	ND	0.0200	0.0400	2.000 <b>Pass</b>
Imazalil	ND	0.0200	0.0400	0.0 <b>Pass</b>	Imidacloprid	ND	0.0200	0.0400	3.000 <b>Pass</b>
KresoximMethyl	ND	0.0200	0.0400	1.000 <b>Pass</b>	Malathion	ND	0.0200	0.0400	5.000 <b>Pass</b>
Metalaxyl	ND	0.0200	0.0400	15.00 <b>Pass</b>	Methiocarb	ND	0.0200	0.0400	0.0 <b>Pass</b>
Methomyl	ND	0.0200	0.0400	0.1000 <b>Pass</b>	Myclobutanil	ND	0.0200	0.0400	9.000 <b>Pass</b>
Naled	ND	0.0200	0.0400	0.5000 <b>Pass</b>	Oxamyl	ND	0.0200	0.0400	0.2000 <b>Pass</b>
Paclobutrazol	ND	0.0200	0.0400	0.0 <b>Pass</b>	Phosmet	ND	0.0200	0.0400	0.2000 <b>Pass</b>
PiperonylButoxide	ND	0.0200	0.0400	8.000 <b>Pass</b>	Prallethrin	ND	0.0200	0.0400	0.4000 <b>Pass</b>
Propoxur	ND	0.0200	0.0400	0.0 <b>Pass</b>	Pyridaben	ND	0.0200	0.0400	3.000 <b>Pass</b>
Spiromesifen	ND	0.0200	0.0400	12.00 <b>Pass</b>	Spirotetramat	ND	0.0200	0.0400	13.00 <b>Pass</b>
Spiroxamine	ND	0.0200	0.0400	0.4000 <b>Pass</b>	Tebuconazole	ND	0.0200	0.0400	2.000 <b>Pass</b>
Thiacloprid	ND	0.0200	0.0400	0.0 <b>Pass</b>	Thiamethoxam	ND	0.0200	0.0400	4.500 <b>Pass</b>
Trifloxystrobin	ND	0.0200	0.0400	30.00 <b>Pass</b>	Abamectin	ND	0.0200	0.0400	0.3000 <b>Pass</b>
Cyfluthrin	ND	0.1000	0.2000	1.000 <b>Pass</b>	Permethrins	ND	0.0200	0.0400	20.00 <b>Pass</b>
Propiconazole	ND	0.0200	0.0400	20.00 <b>Pass</b>	Pyrethrins	ND	0.0374	0.1236	1.000 <b>Pass</b>
Spinosad	ND	0.0200	0.0400	3.000 <b>Pass</b>	Coumaphos	ND	0.0200	0.0400	0.0 <b>Pass</b>
Fenhexamid	ND	0.0200	0.0400	10.00 <b>Pass</b>	Spinetoram	ND	0.0200	0.0400	3.000 <b>Pass</b>
Dimethomorph	ND	0.0200	0.0400	20.00 <b>Pass</b>	Mevinphos	ND	0.0100	0.0200	0.0 <b>Pass</b>

ADDITIONAL INFORMATION

Method: SOP-TECH-002  
 Instrument: UPLC-MSMS

Sample Prepped 03/14/2019 16:27  
 Sample Analyzed 03/14/2019 17:46

Sample Approved 03/15/2019 16:24



# CERTIFICATE OF ANALYSIS

## CHEMICAL RESIDUE GC ANALYSIS

TEST TYPE RESULT: **Pass**  
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Chlordane	ND	0.0400	0.1000	0.0 <b>Pass</b>	Captan	ND	0.0400	0.1000	5.000 <b>Pass</b>
PCNB	ND	0.0200	0.0400	0.2000 <b>Pass</b>	MethylParathion	ND	0.0400	0.1000	0.0 <b>Pass</b>

**ADDITIONAL INFORMATION**

Method: SOP-LAB-007      Sample Prepped 03/14/2019 14:51      Sample Approved 03/15/2019 10:08  
 Instrument: GC-MS/MS      Sample Analyzed 03/14/2019 18:58

## RESIDUAL SOLVENT ANALYSIS

TEST TYPE RESULT: **Pass**  
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Chloroform	ND	0.5000	1.000	1.000 <b>Pass</b>	Acetone	ND	5.000	10.00	5000 <b>Pass</b>
Methanol	ND	50.00	100.0	3000 <b>Pass</b>	Ethanol	ND	10.00	50.00	5000 <b>Pass</b>
Benzene	ND	0.5000	1.000	1.000 <b>Pass</b>	Toluene	ND	1.000	2.500	890.0 <b>Pass</b>
Pentane	ND	50.00	100.0	5000 <b>Pass</b>	Hexane	ND	0.5000	1.000	290.0 <b>Pass</b>
Heptane	ND	5.000	10.00	5000 <b>Pass</b>	Ethyl Acetate	ND	10.00	50.00	5000 <b>Pass</b>
Propane	ND	100.0	200.0	5000 <b>Pass</b>	Acetonitrile	ND	1.000	2.500	410.0 <b>Pass</b>
Ethyl Ether	ND	10.00	50.00	5000 <b>Pass</b>	1,2-Dichloroethane	ND	0.5000	1.000	1.000 <b>Pass</b>
Butane	ND	96.00	192.0	5000 <b>Pass</b>	Methylene chloride	ND	0.5000	1.000	1.000 <b>Pass</b>
Ethylene oxide	ND	0.5000	1.000	1.000 <b>Pass</b>	Isopropyl Alcohol	ND	5.000	10.00	5000 <b>Pass</b>
Trichloroethylene	ND	0.5000	1.000	1.000 <b>Pass</b>	Xylenes	ND	1.000	2.000	2170 <b>Pass</b>

**ADDITIONAL INFORMATION**

Method: SOP-TECH-003      Sample Prepped 03/14/2019 12:49      Sample Approved 03/15/2019 12:45  
 Instrument: HS-GC-MS-FID      Sample Analyzed 03/14/2019 12:53



# CERTIFICATE OF ANALYSIS

## MICROBIAL ANALYSIS

TEST TYPE RESULT: **Pass**  
UNIT OF MEASUREMENT: Cycle Threshold (Ct)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
A.fumigatus	ND	0.0	0.0	33.00 <b>Pass</b>	A. flavus	ND	0.0	0.0	33.00 <b>Pass</b>
A. niger	ND	0.0	0.0	33.00 <b>Pass</b>	A. terreus	ND	0.0	0.0	33.00 <b>Pass</b>
STEC	ND	0.0	0.0	33.00 <b>Pass</b>	Salmonella spp	ND	0.0	0.0	33.00 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-LAB--00?      Sample Prepped 03/14/2019 07:11      Sample Approved 03/18/2019 16:08  
Instrument: qPCR      Sample Analyzed 03/15/2019 11:14

## FILTH & FOREIGN MATERIAL

TEST TYPE RESULT: **Pass**  
UNIT OF MEASUREMENT: Filth and Foreign Matter (%)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
SSCD	ND	0.0	0.0	25.00 <b>Pass</b>	Mold	ND	0.0	0.0	25.00 <b>Pass</b>
IF RH ME	ND	0.0	0.0	3.000 <b>Pass</b>	IFM	ND	0.0	0.0	25.00 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-LAB-007      Sample Prepped 03/13/2019 11:17      Sample Approved 03/14/2019 12:37  
Instrument: Magnifying Glass      Sample Analyzed 03/14/2019 12:01

## HEAVY METALS

TEST TYPE RESULT: **Pass**  
UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Lead	0.0242 ug/g	0.0	0.0050	0.5000 <b>Pass</b>	Mercury	<LLOQ	0.0	0.0050	3.000 <b>Pass</b>
Arsenic	ND	0.0	0.0050	1.500 <b>Pass</b>	Cadmium	<LLOQ	0.0	0.0050	0.5000 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-TECH-008      Sample Prepped 03/14/2019 11:42      Sample Approved 03/15/2019 17:24  
Instrument: ICP-MS      Sample Analyzed 03/15/2019 10:47



# CERTIFICATE OF ANALYSIS

 **MYCOTOXINS**

TEST TYPE RESULT: **Pass**  
UNIT OF MEASUREMENT: Micrograms per Kilogram(ug/kg)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Aflatoxins-B1-2-G1-2	ND	10.00	14.00	20.00 <b>Pass</b>	Ochratoxin A	ND	1.000	2.000	20.00 <b>Pass</b>

**ADDITIONAL INFORMATION**

Method: SOP-TECH-009      Sample Prepped 03/14/2019 15:45      Sample Approved 03/15/2019 13:14  
Instrument: UPLC-MSMS      Sample Analyzed 03/14/2019 17:47

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

**DATA REVIEWED AND APPROVED BY**

03/19/2019

Swetha Kaul, PhD  
Chief Scientific Officer

Date

