

CERTIFICATE OF ANALYSIS**SAMPLE INFORMATION**

Sample Name:	HAPY: GRAPE TINCTURE	Sample Matrix:	Tincture
Sample Id:	115883	Batch Id:	HPY.SY.GP-001
Collected:	05/28/2019 11:01	Received:	05/28/2019 15:56
Serving Size:	6 ml	Servings Per Pkg:	20
Batch Size:	302 units	Sample Size:	5 units
Density:	1.1400 mg/ml	Overall Result:	Pass

DISTRIBUTOR INFO

Business Name:	Green Rose Green Leaf Care, Inc. (Edibles)		
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 Hapy Edibles		
Street Address:	300 E San Antonio Dr	City:	King City
State:	CA	Zip Code:	93930
License:	CDPH - 10002786		

 **CANNABINOID ANALYSIS**

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

TOTAL THC:	46.84 mg per serving (7.919 mg/mL) (0.6947 %)
TOTAL CBD:	0.4408 mg per serving (0.0745 mg/mL) (0.0065 %)
TOTAL CANNABINOIDS:	50.89 mg per serving (8.605 mg/mL) (0.7548 %)

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	7.909 mg/mL (0.6938 %)	0.0020	0.0050	D8THC	ND	0.0020	0.0050
THCa	0.0119 mg/mL (0.0010 %)	0.0020	0.0050	CBG	0.3124 mg/mL (0.0274 %)	0.0020	0.0050
CBN	0.1016 mg/mL (0.0089 %)	0.0020	0.0050	CBD	0.0745 mg/mL (0.0065 %)	0.0020	0.0050
CBDa	ND	0.0020	0.0050	CBGa	ND	0.0020	0.0050
THCv	0.1135 mg/mL (0.0100 %)	0.0020	0.0050	CBC	0.0822 mg/mL (0.0072 %)	0.0020	0.0050
CBDv	ND	0.0020	0.0050				

ADDITIONAL INFORMATION

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

Sample Prepped 06/03/2019 15:03
Sample Analyzed 06/03/2019 15:04

Sample Approved 06/04/2019 10:43



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 Pass	Acequinocyl	ND	0.0200	0.0400	4.000 Pass
Acetamiprid	ND	0.0200	0.0400	5.000 Pass	Aldicarb	ND	0.0200	0.0400	0.0 Pass
Azoxystrobin	ND	0.0200	0.0400	40.00 Pass	Bifenazate	ND	0.0200	0.0400	5.000 Pass
Bifenthrin	ND	0.0200	0.0400	0.5000 Pass	Boscalid	ND	0.0200	0.0400	10.00 Pass
Carbaryl	ND	0.0200	0.0400	0.5000 Pass	Carbofuran	ND	0.0200	0.0400	0.0 Pass
Chlorantraniliprole	ND	0.0200	0.0400	40.00 Pass	Chlorfenapyr	ND	0.0200	0.0400	0.0 Pass
Chlorpyrifos	ND	0.0200	0.0400	0.0 Pass	Clofentezine	ND	0.0200	0.0400	0.5000 Pass
Cypermethrin	ND	0.0400	0.1000	1.000 Pass	Daminozide	ND	0.0200	0.0400	0.0 Pass
Dichlorvos	ND	0.0200	0.0400	0.0 Pass	Diazinon	ND	0.0200	0.0400	0.2000 Pass
Dimethoate	ND	0.0200	0.0400	0.0 Pass	Ethoprophos	ND	0.0200	0.0400	0.0 Pass
Etofenprox	ND	0.0200	0.0400	0.0 Pass	Etoxazole	ND	0.0200	0.0400	1.500 Pass
Fenoxycarb	ND	0.0200	0.0400	0.0 Pass	Fenpyroximate	ND	0.0200	0.0400	2.000 Pass
Fipronil	ND	0.0200	0.0400	0.0 Pass	Fonicamid	ND	0.0200	0.0400	2.000 Pass
Fludioxonil	ND	0.0200	0.0400	30.00 Pass	Hexythiazox	ND	0.0200	0.0400	2.000 Pass
Imazalil	ND	0.0200	0.0400	0.0 Pass	Imidacloprid	ND	0.0200	0.0400	3.000 Pass
KresoximMethyl	ND	0.0200	0.0400	1.000 Pass	Malathion	ND	0.0200	0.0400	5.000 Pass
Metalaxyl	ND	0.0200	0.0400	15.00 Pass	Methiocarb	ND	0.0200	0.0400	0.0 Pass
Methomyl	ND	0.0200	0.0400	0.1000 Pass	Myclobutanil	ND	0.0200	0.0400	9.000 Pass
Naled	ND	0.0200	0.0400	0.5000 Pass	Oxamyl	ND	0.0200	0.0400	0.2000 Pass
Paclobutrazol	ND	0.0200	0.0400	0.0 Pass	Phosmet	ND	0.0200	0.0400	0.2000 Pass
PiperonylButoxide	ND	0.0200	0.0400	8.000 Pass	Prallethrin	ND	0.0200	0.0400	0.4000 Pass
Propoxur	ND	0.0200	0.0400	0.0 Pass	Pyridaben	ND	0.0200	0.0400	3.000 Pass
Spiromesifen	ND	0.0200	0.0400	12.00 Pass	Spirotetramat	ND	0.0200	0.0400	13.00 Pass
Spiroxamine	ND	0.0200	0.0400	0.4000 Pass	Tebuconazole	ND	0.0200	0.0400	2.000 Pass
Thiacloprid	ND	0.0200	0.0400	0.0 Pass	Thiamethoxam	ND	0.0200	0.0400	4.500 Pass
Trifloxystrobin	ND	0.0200	0.0400	30.00 Pass	Abamectin	ND	0.0200	0.0400	0.3000 Pass
Cyfluthrin	ND	0.1000	0.2000	1.000 Pass	Permethrins	ND	0.0200	0.0400	20.00 Pass
Propiconazole	ND	0.0200	0.0400	20.00 Pass	Pyrethrins	ND	0.0178	0.0356	1.000 Pass
Spinosad	ND	0.0200	0.0400	3.000 Pass	Coumaphos	ND	0.0200	0.0400	0.0 Pass
Fenhexamid	ND	0.0200	0.0400	10.00 Pass	Spinetoram	ND	0.0200	0.0400	3.000 Pass
Dimethomorph	ND	0.0099	0.0198	20.00 Pass	Mevinphos	ND	0.0100	0.0200	0.0 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-002
 Instrument: LC-MS/MS

Sample Prepped 05/29/2019 19:31
 Sample Analyzed 05/29/2019 19:31

Sample Approved 05/30/2019 12:08



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 Pass	Captan	ND	0.1000	0.2000	5.000 Pass
PCNB	ND	0.0200	0.0400	0.2000 Pass	MethylParathion	ND	0.0400	0.1000	0.0 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-010 Sample Prepped 05/29/2019 19:31 Sample Approved 05/30/2019 17:43
Instrument: GC-MS/MS Sample Analyzed 05/29/2019 19:31

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	1.000	2.500	1.000 Pass	Acetone	ND	2.500	5.000	5000 Pass
Methanol	ND	1.000	2.500	3000 Pass	Ethanol	ND	1.000	2.500	5000 Pass
Benzene	ND	1.000	2.500	1.000 Pass	Toluene	ND	0.2500	0.5000	890.0 Pass
Pentane	ND	1.000	2.500	5000 Pass	Hexane	ND	0.2500	0.5000	290.0 Pass
Heptane	ND	0.2500	0.5000	5000 Pass	Ethyl Acetate	ND	2.500	5.000	5000 Pass
Propane	ND	5.000	10.00	5000 Pass	Acetonitrile	ND	0.5000	1.000	410.0 Pass
Ethyl Ether	ND	10.00	50.00	5000 Pass	1,2-Dichloroethane	ND	0.2500	0.5000	1.000 Pass
Butane	ND	24.00	48.00	5000 Pass	Methylene chloride	ND	0.2500	0.5000	1.000 Pass
Ethylene oxide	ND	0.5000	1.000	1.000 Pass	Isopropyl Alcohol	ND	0.2500	0.5000	5000 Pass
Trichloroethylene	ND	0.2500	0.5000	1.000 Pass	Xylenes	ND	0.5000	1.000	2170 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-021 Sample Prepped 06/01/2019 16:16 Sample Approved 06/03/2019 17:03
Instrument: HS-GC-MS/FID Sample Analyzed 06/01/2019 16:16



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	33.00	0.0	0.0 Pass	A. flavus	ND	33.00	0.0	0.0 Pass
A. niger	ND	33.00	0.0	0.0 Pass	A. terreus	ND	33.00	0.0	0.0 Pass
STEC	ND	33.00	0.0	0.0 Pass	Salmonella spp	ND	33.00	0.0	0.0 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-016, SOP-TECH-022 Sample Prepped 05/30/2019 08:12 Sample Approved 05/30/2019 13:49
 Instrument: qPCR Sample Analyzed 05/30/2019 08:12

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 Pass	Mold	ND	0.0	0.0	25.00 Pass
IF RH ME	ND	0.0	0.0	3.000 Pass	IFM	ND	0.0	0.0	25.00 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-009 Sample Prepped 05/29/2019 12:54 Sample Approved 05/29/2019 15:02
 Instrument: Visual Inspection Sample Analyzed 05/29/2019 14:15

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	0.0486 ug/g	0.0	0.0050	0.5000 Pass	Mercury	<LLOQ	0.0	0.0050	3.000 Pass
Arsenic	ND	0.0	0.0050	1.500 Pass	Cadmium	<LLOQ	0.0	0.0050	0.5000 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-013 Sample Prepped 05/30/2019 07:32 Sample Approved 05/30/2019 15:17
 Instrument: ICP-MS Sample Analyzed 05/30/2019 08:05



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	Ochratoxin A	ND	1.000	2.000	20.00

ADDITIONAL INFORMATION

Method: SOP-TECH-020 Sample Prepped 05/29/2019 17:43 Sample Approved 05/30/2019 09:26
Instrument: LC-MS/MS Sample Analyzed 05/29/2019 18:09

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



06/05/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

