



CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION



Sample Name: Strawberry Taffy
Sample Matrix: Tincture
Sample ID: 37229
Collected: 04/02/2018 14:17

CANNABINOID ANALYSIS

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

TOTAL THC: ND per serving (ND) (ND)
TOTAL CBD: 12.4 mg per serving (12.4 mg/g) (1.24 %)
TOTAL CANNABINOIDS: 12.4 mg per serving (12.4 mg/g) (1.24 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
D9THC	ND	0.01	0.01	N/A	D8THC	ND	0.01	0.01	N/A
THCa	ND	0.01	0.01	N/A	CBG	ND	0.025	0.025	N/A
CBN	ND	0.025	0.025	N/A	CBD	12.4 mg/g (1.24 %)	0.01	0.01	N/A
CBDa	ND	0.01	0.01	N/A	CBGa	ND	0.025	0.025	N/A
THCv	ND	0.01	0.01	N/A	CBC	ND	0.01	0.01	N/A
CBDv	ND	0.01	0.01	N/A					

ADDITIONAL INFORMATION

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

Sample Prepped 04/03/2018 17:26
Sample Analyzed 04/03/2018 17:46

Sample Approved null





CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**

UNIT OF MEASUREMENT: **Micrograms per Gram(ug/g)**

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
Acephate	ND	0.0025	0.005	Pass	Acequinocyl	ND	0.01	0.05	Pass
Acetamiprid	ND	0.0025	0.01	Pass	Aldicarb	ND	0.0025	0.01	Pass
Azoxystrobin	ND	0.0025	0.01	Pass	Bifenazate	ND	0.0025	0.01	Pass
Bifenthrin	ND	0.0025	0.01	Pass	Boscalid	ND	0.0025	0.01	Pass
Carbaryl	ND	0.0025	0.01	Pass	Carbofuran	ND	0.0025	0.01	Pass
Chlorantraniliprole	ND	0.0025	0.01	Pass	Chlorfenapyr	ND	0.05	0.1	Pass
Chlorpyrifos	ND	0.0025	0.01	Pass	Clofentezine	ND	0.0025	0.025	Pass
Cypermethrin	ND	0.01	0.05	Pass	Daminozide	ND	0.01	0.025	Pass
Dichlorvos	ND	0.01	0.025	Pass	Diazinon	ND	0.0025	0.01	Pass
Dimethoate	ND	0.0025	0.01	Pass	Ethoprophos	ND	0.0025	0.01	Pass
Etofenprox	ND	0.0025	0.01	Pass	Etoxazole	ND	0.0025	0.01	Pass
Fenoxycarb	ND	0.0025	0.01	Pass	Fenpyroximate	ND	0.0025	0.01	Pass
Fipronil	ND	0.01	0.05	Pass	Fonicamid	ND	0.01	0.05	Pass
Fludioxonil	ND	0.0025	0.025	Pass	Hexythiazox	ND	0.0025	0.025	Pass
Imazalil	ND	0.005	0.025	Pass	Imidacloprid	ND	0.0025	0.01	Pass
KresoximMethyl	ND	0.0025	0.01	Pass	Malathion	ND	0.0025	0.01	Pass
Metalaxyl	ND	0.0025	0.01	Pass	Methiocarb	ND	0.0025	0.01	Pass
Methomyl	ND	0.0025	0.01	Pass	MethylParathion	ND	0.1	0.1	Pass
Myclobutanil	ND	0.0025	0.01	Pass	Naled	ND	0.0025	0.01	Pass
Oxamyl	ND	0.0025	0.01	Pass	Paclobutrazol	ND	0.0025	0.01	Pass
Phosmet	ND	0.0025	0.01	Pass	PiperonylButoxide	ND	0.0025	0.01	Pass
Prallethrin	ND	0.005	0.025	Pass	Propoxur	ND	0.0025	0.01	Pass
Pyridaben	ND	0.0025	0.01	Pass	Spiromesifen	ND	0.0025	0.01	Pass
Spirotetramat	ND	0.0025	0.01	Pass	Spiroxamine	ND	0.025	0.01	Pass
Tebuconazole	ND	0.025	0.01	Pass	Thiacloprid	ND	0.0025	0.01	Pass
Thiamethoxam	ND	0.0025	0.01	Pass	Trifloxystrobin	ND	0.0025	0.01	Pass
Abamectin	ND	0.0112	0.056	Pass	Cyfluthrin	ND	0.05	0.1	Pass
Permethrins	ND	0.01	0.05	Pass	Propiconazole	ND	0.005	0.025	Pass
Pyrethrins	ND	0.0111	0.051	Pass	Spinosad	ND	0.0037	0.0164	Pass
Coumaphos	ND	0.0025	0.01	Pass	Fenhexamid	ND	0.0025	0.01	Pass
Spinetoram	ND	0.0025	0.01	Pass	Mevinphos	ND	0.0025	0.01	Pass
Dimethomorph	ND	0.0025	0.01	Pass					

ADDITIONAL INFORMATION

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

Sample Prepped 04/03/2018 17:31
Sample Analyzed 04/03/2018 17:46

Sample Approved null





CERTIFICATE OF ANALYSIS

RESIDUAL SOLVENT ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
N-butane	ND	12.5	12.5	Pass	Isobutane	ND	12.5	12.5	Pass
Acetone	ND	2.5	2.5	Pass	Methanol	ND	2.5	2.5	Pass
Ethanol	ND	12.5	12.5	Pass	Isopropanol	ND	2.5	2.5	Pass
Benzene	ND	2.5	2.5	Pass	Toluene	ND	2.5	2.5	Pass
Pentane	ND	2.5	2.5	Pass	Hexane	ND	2.5	2.5	Pass
Heptane	ND	2.5	2.5	Pass	Ethyl Acetate	ND	2.5	2.5	Pass
Xylenes	ND	7.5	7.5	Pass	Propane	ND	12.5	12.5	Pass
Acetonitrile	ND	2.5	2.5	Pass					

ADDITIONAL INFORMATION

Method: SOP-TECH-003
Instrument: HS-GC-FID

Sample Prepped 04/03/2018 17:30
Sample Analyzed 04/03/2018 17:45

Sample Approved null

This report replaces the previous version with CofA Certificate#: COA-00010916.

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.

DATA REVIEWED AND APPROVED BY

Swetha Kaul, PhD
Chief Scientific Officer





CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION



Sample Name: Jelly Donut
Sample Matrix: Tincture
Sample ID: 37235
Collected: 04/02/2018 14:18

CANNABINOID ANALYSIS

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

TOTAL THC: ND per serving (ND) (ND)
TOTAL CBD: 18 mg per serving (18 mg/g) (1.8 %)
TOTAL CANNABINOIDS: 18 mg per serving (18 mg/g) (1.8 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
D9THC	ND	0.01	0.01	N/A	D8THC	ND	0.01	0.01	N/A
THCa	ND	0.01	0.01	N/A	CBG	ND	0.025	0.025	N/A
CBN	ND	0.025	0.025	N/A	CBD	18 mg/g (1.8 %)	0.01	0.01	N/A
CBDa	ND	0.01	0.01	N/A	CBGa	ND	0.025	0.025	N/A
THCv	ND	0.01	0.01	N/A	CBC	ND	0.01	0.01	N/A
CBDv	ND	0.01	0.01	N/A					

ADDITIONAL INFORMATION

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

Sample Prepped 04/03/2018 17:28
Sample Analyzed 04/03/2018 17:46

Sample Approved null





CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
Acephate	ND	0.0025	0.005	Pass	Acequinocyl	ND	0.01	0.05	Pass
Acetamiprid	ND	0.0025	0.01	Pass	Aldicarb	ND	0.0025	0.01	Pass
Azoxystrobin	ND	0.0025	0.01	Pass	Bifenazate	ND	0.0025	0.01	Pass
Bifenthrin	ND	0.0025	0.01	Pass	Boscalid	ND	0.0025	0.01	Pass
Carbaryl	ND	0.0025	0.01	Pass	Carbofuran	ND	0.0025	0.01	Pass
Chlorantraniliprole	ND	0.0025	0.01	Pass	Chlorfenapyr	ND	0.05	0.1	Pass
Chlorpyrifos	ND	0.0025	0.01	Pass	Clofentezine	ND	0.0025	0.025	Pass
Cypermethrin	ND	0.01	0.05	Pass	Daminozide	ND	0.01	0.025	Pass
Dichlorvos	ND	0.01	0.025	Pass	Diazinon	ND	0.0025	0.01	Pass
Dimethoate	ND	0.0025	0.01	Pass	Ethoprophos	ND	0.0025	0.01	Pass
Etofenprox	ND	0.0025	0.01	Pass	Etoxazole	ND	0.0025	0.01	Pass
Fenoxycarb	ND	0.0025	0.01	Pass	Fenpyroximate	ND	0.0025	0.01	Pass
Fipronil	ND	0.01	0.05	Pass	Fonicamid	ND	0.01	0.05	Pass
Fludioxonil	ND	0.0025	0.025	Pass	Hexythiazox	ND	0.0025	0.025	Pass
Imazalil	ND	0.005	0.025	Pass	Imidacloprid	ND	0.0025	0.01	Pass
KresoximMethyl	ND	0.0025	0.01	Pass	Malathion	ND	0.0025	0.01	Pass
Metalaxyl	ND	0.0025	0.01	Pass	Methiocarb	ND	0.0025	0.01	Pass
Methomyl	ND	0.0025	0.01	Pass	MethylParathion	ND	0.1	0.1	Pass
Myclobutanil	ND	0.0025	0.01	Pass	Naled	ND	0.0025	0.01	Pass
Oxamyl	ND	0.0025	0.01	Pass	Paclobutrazol	ND	0.0025	0.01	Pass
Phosmet	ND	0.0025	0.01	Pass	PiperonylButoxide	ND	0.0025	0.01	Pass
Prallethrin	ND	0.005	0.025	Pass	Propoxur	ND	0.0025	0.01	Pass
Pyridaben	ND	0.0025	0.01	Pass	Spiromesifen	ND	0.0025	0.01	Pass
Spirotetramat	ND	0.0025	0.01	Pass	Spiroxamine	ND	0.025	0.01	Pass
Tebuconazole	ND	0.025	0.01	Pass	Thiacloprid	ND	0.0025	0.01	Pass
Thiamethoxam	ND	0.0025	0.01	Pass	Trifloxystrobin	ND	0.0025	0.01	Pass
Abamectin	ND	0.0112	0.056	Pass	Cyfluthrin	ND	0.05	0.1	Pass
Permethrins	ND	0.01	0.05	Pass	Propiconazole	ND	0.005	0.025	Pass
Pyrethrins	ND	0.0111	0.051	Pass	Spinosad	ND	0.0037	0.0164	Pass
Coumaphos	ND	0.0025	0.01	Pass	Fenhexamid	ND	0.0025	0.01	Pass
Spinetoram	ND	0.0025	0.01	Pass	Mevinphos	ND	0.0025	0.01	Pass
Dimethomorph	ND	0.0025	0.01	Pass					

ADDITIONAL INFORMATION

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

Sample Prepped 04/03/2018 17:33
Sample Analyzed 04/03/2018 17:46

Sample Approved null





CERTIFICATE OF ANALYSIS

RESIDUAL SOLVENT ANALYSIS

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

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
N-butane	ND	12.5	12.5	Pass	Isobutane	ND	12.5	12.5	Pass
Acetone	ND	2.5	2.5	Pass	Methanol	ND	2.5	2.5	Pass
Ethanol	ND	12.5	12.5	Pass	Isopropanol	ND	2.5	2.5	Pass
Benzene	ND	2.5	2.5	Pass	Toluene	ND	2.5	2.5	Pass
Pentane	ND	2.5	2.5	Pass	Hexane	ND	2.5	2.5	Pass
Heptane	ND	2.5	2.5	Pass	Ethyl Acetate	ND	2.5	2.5	Pass
Xylenes	ND	7.5	7.5	Pass	Propane	ND	12.5	12.5	Pass
Acetonitrile	ND	2.5	2.5	Pass					

ADDITIONAL INFORMATION

Method: SOP-TECH-003
Instrument: HS-GC-FID

Sample Prepped 04/03/2018 17:30
Sample Analyzed 04/03/2018 17:45

Sample Approved null

This report replaces the previous version with CofA Certificate#: COA-00010920.

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.

DATA REVIEWED AND APPROVED BY

Swetha Kaul, PhD
Chief Scientific Officer





CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION



Sample Name: Fruit Smoothie
Sample Matrix: Edible
Serving Size: 10ml
Servings Per Sample: 1
Sample ID: 37116
Collected: 03/26/2018 16:16

CANNABINOID ANALYSIS

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

TOTAL THC: ND per serving (ND) (ND)
TOTAL CBD: 133 mg per serving (13.3 mg/g) (1.33 %)
TOTAL CANNABINOIDS: 133 mg per serving (13.3 mg/g) (1.33 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
D9THC	ND	0.01	0.01	N/A	D8THC	ND	0.01	0.01	N/A
THCa	ND	0.01	0.01	N/A	CBG	ND	0.025	0.025	N/A
CBN	ND	0.025	0.025	N/A	CBD	13.3 mg/g (1.33 %)	0.01	0.01	N/A
CBDa	ND	0.01	0.01	N/A	CBGa	ND	0.025	0.025	N/A
THCv	ND	0.01	0.01	N/A	CBC	ND	0.01	0.01	N/A
CBDv	0.0249 mg/g (0.00249 %)	0.01	0.01	N/A					

ADDITIONAL INFORMATION

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

Sample Prepped 03/27/2018 15:02
Sample Analyzed 03/27/2018 16:52

Sample Approved 03/28/2018 10:58



CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
Acephate	ND	0.0025	0.005	Pass	Acequinocyl	ND	0.01	0.05	Pass
Acetamiprid	ND	0.0025	0.01	Pass	Aldicarb	ND	0.0025	0.01	Pass
Azoxystrobin	ND	0.0025	0.01	Pass	Bifenazate	ND	0.0025	0.01	Pass
Bifenthrin	ND	0.0025	0.01	Pass	Boscalid	ND	0.0025	0.01	Pass
Carbaryl	ND	0.0025	0.01	Pass	Carbofuran	ND	0.0025	0.01	Pass
Chlorantraniliprole	ND	0.0025	0.01	Pass	Chlorfenapyr	ND	0.05	0.1	Pass
Chlorpyrifos	ND	0.0025	0.01	Pass	Clofentezine	ND	0.0025	0.025	Pass
Cypermethrin	ND	0.01	0.05	Pass	Daminozide	ND	0.01	0.025	Pass
Dichlorvos	ND	0.01	0.025	Pass	Diazinon	ND	0.0025	0.01	Pass
Dimethoate	ND	0.0025	0.01	Pass	Ethoprophos	ND	0.0025	0.01	Pass
Etofenprox	ND	0.0025	0.01	Pass	Etoxazole	ND	0.0025	0.01	Pass
Fenoxycarb	ND	0.0025	0.01	Pass	Fenpyroximate	ND	0.0025	0.01	Pass
Fipronil	ND	0.01	0.05	Pass	Fonicamid	ND	0.01	0.05	Pass
Fludioxonil	ND	0.0025	0.025	Pass	Hexythiazox	ND	0.0025	0.025	Pass
Imazalil	ND	0.005	0.025	Pass	Imidacloprid	ND	0.0025	0.01	Pass
KresoximMethyl	ND	0.0025	0.01	Pass	Malathion	ND	0.0025	0.01	Pass
Metalaxyl	ND	0.0025	0.01	Pass	Methiocarb	ND	0.0025	0.01	Pass
Methomyl	ND	0.0025	0.01	Pass	MethylParathion	ND	0.1	0.1	Pass
Myclobutanil	ND	0.0025	0.01	Pass	Naled	ND	0.0025	0.01	Pass
Oxamyl	ND	0.0025	0.01	Pass	Paclobutrazol	ND	0.0025	0.01	Pass
Phosmet	ND	0.0025	0.01	Pass	PiperonylButoxide	ND	0.0025	0.01	Pass
Prallethrin	ND	0.005	0.025	Pass	Propoxur	ND	0.0025	0.01	Pass
Pyridaben	ND	0.0025	0.01	Pass	Spiromesifen	ND	0.0025	0.01	Pass
Spirotetramat	ND	0.0025	0.01	Pass	Spiroxamine	ND	0.025	0.01	Pass
Tebuconazole	ND	0.025	0.01	Pass	Thiacloprid	ND	0.0025	0.01	Pass
Thiamethoxam	ND	0.0025	0.01	Pass	Trifloxystrobin	ND	0.0025	0.01	Pass
Abamectin	ND	0.0112	0.056	Pass	Cyfluthrin	ND	0.05	0.1	Pass
Permethrins	ND	0.01	0.05	Pass	Propiconazole	ND	0.005	0.025	Pass
Pyrethrins	ND	0.0111	0.051	Pass	Spinosad	ND	0.0037	0.0164	Pass
Coumaphos	ND	0.0025	0.01	Pass	Fenhexamid	ND	0.0025	0.01	Pass
Spinetoram	ND	0.0025	0.01	Pass	Mevinphos	ND	0.0025	0.01	Pass
Dimethomorph	ND	0.0025	0.01	Pass					

ADDITIONAL INFORMATION

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

Sample Prepped 03/27/2018 15:00
Sample Analyzed 03/27/2018 16:53

Sample Approved 03/28/2018 16:44



CERTIFICATE OF ANALYSIS

RESIDUAL SOLVENT ANALYSIS

TEST TYPE RESULT: **Pass**

UNIT OF MEASUREMENT: **Micrograms per Gram(ug/g)**

ANALYTE	RESULT	LOD	LLOQ	STATUS	ANALYTE	RESULT	LOD	LLOQ	STATUS
N-butane	ND	12.5	12.5	Pass	Isobutane	ND	12.5	12.5	Pass
Acetone	ND	2.5	2.5	Pass	Methanol	ND	2.5	2.5	Pass
Ethanol	3320 ug/g	12.5	12.5	Pass	Isopropanol	ND	2.5	2.5	Pass
Benzene	ND	2.5	2.5	Pass	Toluene	ND	2.5	2.5	Pass
Pentane	ND	2.5	2.5	Pass	Hexane	ND	2.5	2.5	Pass
Heptane	ND	2.5	2.5	Pass	Ethyl Acetate	ND	2.5	2.5	Pass
Xylenes	40.2 ug/g	7.5	7.5	Pass	Propane	ND	12.5	12.5	Pass
Acetonitrile	ND	2.5	2.5	Pass					

ADDITIONAL INFORMATION

Method: SOP-TECH-003
Instrument: HS-GC-FID

Sample Prepped 03/27/2018 15:03
Sample Analyzed 03/27/2018 16:52

Sample Approved 03/28/2018 09:23

This report replaces the previous version with CofA Certificate#: COA-00010624.

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.

DATA REVIEWED AND APPROVED BY



Swetha Kaul, PhD
Chief Scientific Officer

