

CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

Sample Name: Mango
Sample Id: 55795
Collected: 09/05/2018 09:26
Overall Result: Pass

Sample Matrix: Concentrate
Batch Id: A28-A99
Received: 09/10/2018 10:58

MANUFACTURER INFO

Business Name: JBTB Holdings, Inc. DBA JBTB Holdings, Inc.
Street Address: 1031 98th Ave
State: CA
License: CDPH-T00001060

City: Oakland
Zip Code: 94603

CANNABINOID ANALYSIS

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

TOTAL THC: 438 mg/g (43.8 %)
TOTAL CBD: 309 mg/g (30.9 %)
TOTAL CANNABINOIDS: 787 mg/g (78.7 %)

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	432 mg/g (43.2 %)	1.000	2.00	D8THC	ND	1.000	2.00
THCa	ND	1.000	2.00	CBG	20.3 mg/g (2.03 %)	1.000	2.00
CBN	10.6 mg/g (1.06 %)	1.000	2.00	CBD	304 mg/g (30.4 %)	1.000	2.00
CBDa	ND	1.000	2.00	CBGa	ND	1.000	2.00
THCv	6.14 mg/g (0.614 %)	1.000	2.00	CBC	8.61 mg/g (0.861 %)	1.000	2.00
CBDv	5.03 mg/g (0.503 %)	1.000	2.00				

ADDITIONAL INFORMATION

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

Sample Prepped 09/11/2018 12:22
Sample Analyzed 09/11/2018 12:49

Sample Approved 09/11/2018 21:26





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	0.0025	0.0050	0.100 Pass	Acequinocyl	ND	0.0050	0.0250	0.100 Pass
Acetamiprid	ND	0.0025	0.0100	0.100 Pass	Aldicarb	ND	0.0025	0.0100	0.0 Pass
Azoxystrobin	ND	0.0025	0.0100	0.200 Pass	Bifenazate	0.0540 ug/g	0.0025	0.0100	0.100 Pass
Bifenthrin	ND	0.0050	0.0250	3.00 Pass	Boscalid	ND	0.0025	0.0100	0.100 Pass
Carbaryl	ND	0.0025	0.0100	0.500 Pass	Carbofuran	ND	0.0025	0.0100	0.0 Pass
Chlorantraniliprole	ND	0.0030	0.0250	10.0 Pass	Chlorfenapyr	ND	0.0500	0.100	0.0 Pass
Chlorpyrifos	ND	0.0025	0.0100	0.0 Pass	Clofentezine	ND	0.0030	0.0250	0.100 Pass
Cypermethrin	ND	0.0100	0.0500	1.00 Pass	Daminozide	ND	0.0050	0.250	0.0 Pass
Dichlorvos	ND	0.0050	0.0500	0.0 Pass	Diazinon	ND	0.0025	0.0100	0.100 Pass
Dimethoate	ND	0.0025	0.0100	0.0 Pass	Ethoprophos	ND	0.0025	0.0100	0.0 Pass
Etofenprox	ND	0.0025	0.0100	0.0 Pass	Etoxazole	ND	0.0025	0.0100	0.100 Pass
Fenoxycarb	ND	0.0025	0.0100	0.0 Pass	Fenpyroximate	ND	0.0025	0.0100	0.100 Pass
Fipronil	ND	0.0250	0.200	0.0 Pass	Fonicamid	ND	0.0050	0.0250	0.100 Pass
Fludioxonil	ND	0.0100	0.0500	0.100 Pass	Hexythiazox	ND	0.0025	0.0250	0.100 Pass
Imazalil	ND	0.0050	0.0250	0.0 Pass	Imidacloprid	ND	0.0050	0.0500	5.00 Pass
KresoximMethyl	ND	0.0025	0.0100	0.100 Pass	Malathion	ND	0.0025	0.0100	5.00 Pass
Metalaxyl	ND	0.0025	0.0100	2.00 Pass	Methiocarb	ND	0.0025	0.0100	0.0 Pass
Methomyl	ND	0.0025	0.0100	1.00 Pass	Myclobutanil	ND	0.0100	0.0500	0.100 Pass
Naled	ND	0.0025	0.0100	0.100 Pass	Oxamyl	ND	0.0250	0.100	0.500 Pass
Paclobutrazol	ND	0.0025	0.0100	0.0 Pass	Phosmet	ND	0.0025	0.0100	0.100 Pass
PiperonylButoxide	ND	0.0025	0.0100	3.00 Pass	Prallethrin	ND	0.0100	0.0500	0.100 Pass
Propoxur	ND	0.0025	0.0100	0.0 Pass	Pyridaben	ND	0.0025	0.0100	0.100 Pass
Spiromesifen	ND	0.0025	0.0100	0.100 Pass	Spirotetramat	ND	0.0025	0.0100	0.100 Pass
Spiroxamine	ND	0.0250	0.0100	0.400 Pass	Tebuconazole	ND	0.0250	0.0100	0.100 Pass
Thiacloprid	ND	0.0025	0.0100	0.0 Pass	Thiamethoxam	ND	0.0025	0.0100	5.00 Pass
Trifloxystrobin	ND	0.0025	0.0100	0.100 Pass	Abamectin	ND	0.0127	0.0635	0.100 Pass
Cyfluthrin	ND	0.100	0.500	2.00 Pass	Permethrins	ND	0.0166	0.0685	0.500 Pass
Propiconazole	ND	0.0051	0.0251	0.100 Pass	Pyrethrins	ND	0.0144	0.0705	0.500 Pass
Spinosad	ND	0.0061	0.0244	0.100 Pass	Coumaphos	ND	0.0025	0.0100	0.0 Pass
Fenhexamid	ND	0.0050	0.0500	0.100 Pass	Spinetoram	ND	0.0030	0.0100	0.100 Pass
Dimethomorph	ND	0.0025	0.0100	2.00 Pass	Mevinphos	ND	0.0020	0.0100	0.0 Pass

ADDITIONAL INFORMATION

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

Sample Prepped 09/10/2018 14:55
 Sample Analyzed 09/10/2018 18:10

Sample Approved 09/11/2018 13:44



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	0.100	0.0 Pass	Captan	ND	0.200	0.400	0.700 Pass
PCNB	ND	0.0200	0.0400	0.100 Pass	MethylParathion	ND	0.0400	0.100	0.0 Pass

ADDITIONAL INFORMATION

Method: SOP-LAB-007
Instrument: GC-MS/MS

Sample Prepped 09/10/2018 14:54
Sample Analyzed 09/10/2018 18:10

Sample Approved 09/11/2018 12:30

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	0.500	1.00	0.0 Pass	Acetone	51.9 ug/g	5.00	10.0	3100 Pass
Methanol	236 ug/g	50.0	100	400 Pass	Ethanol	1550 ug/g	10.0	50.0	5000 Pass
Benzene	ND	0.500	1.00	0.0 Pass	Toluene	ND	1.00	2.50	30.0 Pass
Pentane	ND	50.0	100	5000 Pass	Hexane	ND	0.500	1.00	70.0 Pass
Heptane	ND	5.00	10.0	5000 Pass	Ethyl Acetate	145 ug/g	10.0	50.0	5000 Pass
Propane	ND	100	200	5000 Pass	Acetonitrile	ND	1.00	2.50	6.00 Pass
Ethyl Ether	ND	10.0	50.0	5000 Pass	1,2-Dichloroethane	ND	0.500	1.00	0.0 Pass
Butane	ND	96.0	192	5000 Pass	Methylene chloride	ND	0.500	1.00	0.0 Pass
Ethylene oxide	ND	0.500	1.00	0.0 Pass	Isopropyl Alcohol	50.7 ug/g	5.00	10.0	320 Pass
Trichloroethylene	ND	0.500	1.00	0.0 Pass	Xylenes	ND	1.00	2.00	10.0 Pass

ADDITIONAL INFORMATION

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

Sample Prepped 09/10/2018 14:52
Sample Analyzed 09/10/2018 17:57

Sample Approved 09/11/2018 12:29



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	33.0 Pass	A. flavus	ND	0.0	0.0	33.0 Pass
A. niger	ND	0.0	0.0	33.0 Pass	A. terreus	ND	0.0	0.0	33.0 Pass
STEC	ND	0.0	0.0	33.0 Pass	Salmonella spp	ND	0.0	0.0	33.0 Pass

ADDITIONAL INFORMATION

Method: SOP-LAB--00?
Instrument: qPCR

Sample Prepped 09/10/2018 14:51
Sample Analyzed 09/10/2018 18:11

Sample Approved 09/12/2018 12:50

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	25.0 Pass	Mold	ND	0.0	0.0	25.0 Pass
IF RH ME	ND	0.0	0.0	3.00 Pass	IFM	ND	0.0	0.0	25.0 Pass

ADDITIONAL INFORMATION

Method: SOP-LAB-007
Instrument: Magnifying Glass

Sample Prepped 09/11/2018 10:14
Sample Analyzed 09/11/2018 20:25

Sample Approved 09/11/2018 21:26

This report replaces the previous version with CofA Certificate#: COA-00019008.

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



09/12/2018

Swetha Kaul, PhD
Chief Scientific Officer

Date

