

# CERTIFICATE OF ANALYSIS



## SAMPLE INFORMATION

Sample Name: Dutch Treat  
Sample Id: 68822  
Collected: 12/13/2018 10:54  
Batch Size: 1870 units  
Overall Result: **Pass**

Sample Matrix: Concentrate  
Batch Id: 120618DT  
Received: 12/14/2018 10:43  
Sample Size: 13 units

## MANUFACTURER INFO

Business Name: Cypress Manufacturing Co.  
Street Address: 20 Quail Run Circle  
City: Salinas  
Zip Code: 93907

Street Addr. Cont.: Unit B  
State: CA  
License: CDPH-T00000344

## CANNABINOID ANALYSIS

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

TOTAL THC: 776.0 mg/g (77.60 %)  
TOTAL CBD: ND (ND)  
TOTAL CANNABINOIDS: 819.6 mg/g (81.96 %)

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

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	768.4 mg/g (76.84 %)	1.0000	2.000	D8THC	ND	1.0000	2.000
THCa	ND	1.0000	2.000	CBG	18.89 mg/g (1.889 %)	1.0000	2.000
CBN	14.52 mg/g (1.452 %)	1.0000	2.000	CBD	ND	1.0000	2.000
CBDa	ND	1.0000	2.000	CBGa	ND	1.0000	2.000
THCv	7.594 mg/g (0.7594 %)	1.0000	2.000	CBC	10.17 mg/g (1.017 %)	1.0000	2.000
CBDv	ND	1.0000	2.000				

### ADDITIONAL INFORMATION

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

Sample Prepped 12/17/2018 20:15  
Sample Analyzed 12/18/2018 11:09

Sample Approved 12/19/2018 12:40



# 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	0.0040	0.0100	0.1000 <b>Pass</b>	Acequinocyl	ND	0.0004	0.0020	0.1000 <b>Pass</b>
Acetamiprid	ND	0.0020	0.0040	0.1000 <b>Pass</b>	Aldicarb	ND	0.0100	0.0200	0.0 <b>Pass</b>
Azoxystrobin	ND	0.0100	0.0200	0.2000 <b>Pass</b>	Bifenazate	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Bifenthrin	ND	0.0100	0.0200	3.000 <b>Pass</b>	Boscalid	ND	0.0200	0.0400	0.1000 <b>Pass</b>
Carbaryl	ND	0.0020	0.0040	0.5000 <b>Pass</b>	Carbofuran	ND	0.0100	0.0200	0.0 <b>Pass</b>
Chlorantraniliprole	ND	0.0400	0.1000	10.00 <b>Pass</b>	Chlorfenapyr	ND	0.0400	0.1000	0.0 <b>Pass</b>
Chlorpyrifos	ND	0.0400	0.1000	0.0 <b>Pass</b>	Clofentezine	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Cypermethrin	ND	0.0400	0.1000	1.000 <b>Pass</b>	Daminozide	ND	0.0400	0.1000	0.0 <b>Pass</b>
Dichlorvos	ND	0.0100	0.0200	0.0 <b>Pass</b>	Diazinon	ND	0.0020	0.0040	0.1000 <b>Pass</b>
Dimethoate	ND	0.0100	0.0400	0.0 <b>Pass</b>	Ethoprophos	ND	0.0040	0.0100	0.0 <b>Pass</b>
Etofenprox	ND	0.0040	0.0100	0.0 <b>Pass</b>	Etoxazole	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Fenoxycarb	ND	0.0040	0.0100	0.0 <b>Pass</b>	Fenpyroximate	ND	0.0100	0.0200	0.1000 <b>Pass</b>
Fipronil	ND	0.0400	0.1000	0.0 <b>Pass</b>	Fonicamid	ND	0.0200	0.0400	0.1000 <b>Pass</b>
Fludioxonil	ND	0.0100	0.0200	0.1000 <b>Pass</b>	Hexythiazox	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Imazalil	ND	0.0100	0.0200	0.0 <b>Pass</b>	Imidacloprid	ND	0.0040	0.0100	5.000 <b>Pass</b>
KresoximMethyl	ND	0.0200	0.0400	0.1000 <b>Pass</b>	Malathion	ND	0.0040	0.0100	5.000 <b>Pass</b>
Metalaxyl	ND	0.0040	0.0100	2.000 <b>Pass</b>	Methiocarb	ND	0.0020	0.0040	0.0 <b>Pass</b>
Methomyl	ND	0.0020	0.0040	1.000 <b>Pass</b>	Myclobutanil	ND	0.0200	0.0400	0.1000 <b>Pass</b>
Naled	ND	0.0040	0.0100	0.1000 <b>Pass</b>	Oxamyl	ND	0.0100	0.0200	0.5000 <b>Pass</b>
Paclobutrazol	ND	0.0040	0.0100	0.0 <b>Pass</b>	Phosmet	ND	0.0040	0.0100	0.1000 <b>Pass</b>
PiperonylButoxide	ND	0.0020	0.0040	3.000 <b>Pass</b>	Prallethrin	ND	0.0400	0.1000	0.1000 <b>Pass</b>
Propoxur	ND	0.0040	0.0100	0.0 <b>Pass</b>	Pyridaben	ND	0.0100	0.0200	0.1000 <b>Pass</b>
Spiromesifen	ND	0.0400	0.1000	0.1000 <b>Pass</b>	Spirotetramat	ND	0.0200	0.0400	0.1000 <b>Pass</b>
Spiroxamine	ND	0.0020	0.0040	0.4000 <b>Pass</b>	Tebuconazole	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Thiacloprid	ND	0.0004	0.0020	0.0 <b>Pass</b>	Thiamethoxam	ND	0.0040	0.0100	5.000 <b>Pass</b>
Trifloxystrobin	ND	0.0020	0.0040	0.1000 <b>Pass</b>	Abamectin	ND	0.0400	0.1000	0.1000 <b>Pass</b>
Cyfluthrin	ND	0.4000	2.000	2.000 <b>Pass</b>	Permethrins	ND	0.0100	0.0200	0.5000 <b>Pass</b>
Propiconazole	ND	0.0270	0.0610	0.1000 <b>Pass</b>	Pyrethrins	ND	0.0656	0.1570	0.5000 <b>Pass</b>
Spinosad	ND	0.0100	0.0200	0.1000 <b>Pass</b>	Coumaphos	ND	0.0100	0.0200	0.0 <b>Pass</b>
Fenhexamid	ND	0.0400	0.1000	0.1000 <b>Pass</b>	Spinetoram	ND	0.0040	0.0100	0.1000 <b>Pass</b>
Dimethomorph	ND	0.0070	0.0149	2.000 <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 12/17/2018 20:17  
 Sample Analyzed 12/18/2018 11:09

Sample Approved 12/18/2018 18:50



## 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	0.2000	0.4000	0.7000 <b>Pass</b>
PCNB	ND	0.0200	0.0400	0.1000 <b>Pass</b>	MethylParathion	ND	0.0400	0.1000	0.0 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-LAB-007  
Instrument: GC-MS/MS  
Sample Prepped 12/18/2018 09:48  
Sample Analyzed 12/18/2018 19:33  
Sample Approved 12/19/2018 22:00

## 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	0.0 <b>Pass</b>	Acetone	22.56 ug/g	5.000	10.00	3100 <b>Pass</b>
Methanol	ND	50.00	100.0	400.0 <b>Pass</b>	Ethanol	ND	10.00	50.00	5000 <b>Pass</b>
Benzene	ND	0.5000	1.000	0.0 <b>Pass</b>	Toluene	ND	1.000	2.500	30.00 <b>Pass</b>
Pentane	ND	50.00	100.0	5000 <b>Pass</b>	Hexane	ND	0.5000	1.000	70.00 <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	<LLOQ	1.000	2.500	6.000 <b>Pass</b>
Ethyl Ether	ND	10.00	50.00	5000 <b>Pass</b>	1,2-Dichloroethane	ND	0.5000	1.000	0.0 <b>Pass</b>
Butane	ND	96.00	192.0	5000 <b>Pass</b>	Methylene chloride	ND	0.5000	1.000	0.0 <b>Pass</b>
Ethylene oxide	ND	0.5000	1.000	0.0 <b>Pass</b>	Isopropyl Alcohol	21.25 ug/g	5.000	10.00	320.0 <b>Pass</b>
Trichloroethylene	ND	0.5000	1.000	0.0 <b>Pass</b>	Xylenes	ND	1.000	2.000	10.00 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-TECH-003  
Instrument: HS-GC-FID  
Sample Prepped 12/17/2018 19:25  
Sample Analyzed 12/17/2018 21:26  
Sample Approved 12/19/2018 22:00





## 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 12/16/2018 16:11      Sample Approved 12/19/2018 09:16  
 Instrument: qPCR      Sample Analyzed 12/17/2018 13:31



## 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 12/17/2018 14:10      Sample Approved 12/17/2018 14:34  
 Instrument: Magnifying Glass      Sample Analyzed 12/17/2018 14:14



## 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	0.3763 ug/g	0.0	0.0050	500.0 <b>Pass</b>	Mercury	<LLOQ	0.0	0.0050	100.0 <b>Pass</b>
Arsenic	0.0051 ug/g	0.0	0.0050	200.0 <b>Pass</b>	Cadmium	<LLOQ	0.0	0.0050	200.0 <b>Pass</b>

### ADDITIONAL INFORMATION

Method: SOP-TECH-008      Sample Prepped 12/19/2018 13:16      Sample Approved 12/20/2018 15:16  
 Instrument: ICP-MS      Sample Analyzed 12/19/2018 13:24





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	1.002E+9	2.005E+9	0.0200 <b>Pass</b>	Ochratoxin A	ND	1.000	2.000	0.0200 <b>Pass</b>

ADDITIONAL INFORMATION

Method: SOP-TECH-009      Sample Prepped 12/17/2018 20:44      Sample Approved 12/19/2018 17:20  
Instrument: UPLC-MSMS      Sample Analyzed 12/18/2018 11:54

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



12/20/2018

Swetha Kaul, PhD  
Chief Scientific Officer

Date

