

EVIO Labs Portland  
 14775 SW 74th Ave, Tigard, OR 97224  
 503-954-2562 / OLCC 010-10046111391 / www.EVIOLabs.com

## USDA Certified Organic Co

Act 1 Essentials  
 AG-R1045887IHH



Confident Cannabis ID: 2003ELP0060.1097

Sample ID: P200266-01

Matrix: Extract/Concentrate

METRC Batch #:

Batch ID: SHHW-2020-OSH HW20-018

Sampling Method/SOP: SOP.T.20.010

Batch Size: 4535g

Date Sampled: 03/09/20 09:00

Unit for Sale:

Date Accepted: 03/09/20

Harvest/Production Date: 3/8/20

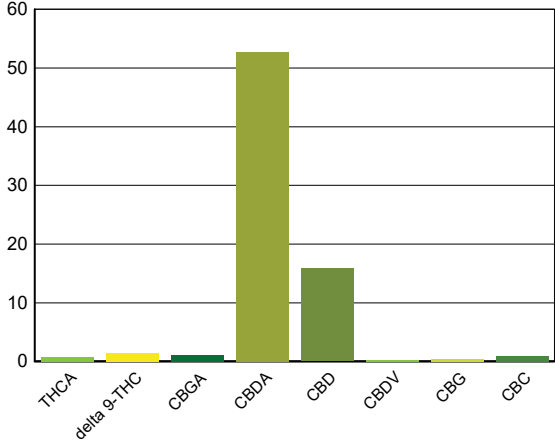
Harvest/Process Lot ID: FBH.2019.SS92819/SHHW.20.018

### Cannabinoid Analysis

Date/Time Extracted: 03/17/20 12:40

Analysis Method/SOP: SOP.T.40.023

Date/Time Analyzed: 03/18/20 12:00

Cannabinoids	LOQ(%)	mg/g	(% weight)	Cannabinoid Profile
<b>Total THC</b> <small>((THCA*0.877)+Δ9THC)</small>		<b>21.10</b>	<b>2.11</b>	
<b>Total CBD</b> <small>((CBDA*0.877)+CBD)</small>		<b>621.00</b>	<b>62.1</b>	
THCA	0.200	7.65	0.765	
delta 9-THC	0.200	14.40	1.44	
delta 8-THC	0.200	< LOQ	< LOQ	
THCV	0.200	< LOQ	< LOQ	
CBGA	0.200	11.10	1.11	
CBDA	0.200	527.00	52.7	
CBD	0.200	159.00	15.9	
CBDV	0.200	2.06	0.206	
CBN	0.200	< LOQ	< LOQ	
CBG	0.200	3.95	0.395	
CBC	0.200	9.16	0.916	
THCV-A	0.200	< LOQ	< LOQ	
CBDV-A	0.200	2.31	0.231	
Sum of tested Cannabinoids	0.200	736.00	73.6	

"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Oregon Water Activity action level is 0.65Aw and Oregon Moisture Content action level is 15%, Samples above limit will be highlighted **RED**; FD = Field Duplicate; LOQ = Limit of Quantitation.



Kawai Medeiros  
 Laboratory Manager - 3/18/2020

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## Potency Field Duplicate Report:

Primary Sample Name/ID: USDA Certified Organic Co **P200266-01**

Field Duplicate Name/ID: USDA Certified Organic Co **P200266-02**

### Sample Metric ID:

	Primary %	Duplicate %	Average %	% RPD	Pass/Fail
<b>Total THC ((THCA*0.877)+Δ9THC)</b>	2.11	2.19	2.150	3.72	PASS
<b>Total CBD ((CBDA*0.877)+CBD)</b>	62.1	61.8	61.950	0.48	NA
THCA	0.765	0.771	0.768	0.78	NA
delta 9-THC	1.44	1.51	1.475	4.75	NA
delta 8-THC	< LOQ	< LOQ	NA	NA	NA
THCV-A	< LOQ	< LOQ	NA	NA	NA
THCV	< LOQ	< LOQ	NA	NA	NA
CBDA	52.7	52.4	52.550	0.57	NA
CBD	15.9	15.9	15.900	0.00	NA
CBDV-A	0.231	0.245	0.238	5.88	NA
CBDV	0.206	0.202	0.204	1.96	NA
CBG	0.395	0.388	0.392	1.79	NA
CBGA	1.11	1.07	1.090	3.67	NA
CBN	< LOQ	< LOQ	NA	NA	NA
CBC	0.916	0.910	0.913	0.66	NA
Sum of tested Cannabinoids	73.6	73.3	73.450	0.41	NA



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## USDA Certified Organic Co

**Act 1 Essentials**  
**AG-R1045887IHH**

**Sample ID: P200266-01**

**METRC Batch #:**

**Matrix: Extract/Concentrate**

**Date Sampled: 03/09/20 09:00**

**Date Accepted: 03/09/20**

**Batch ID: SHHW-2020-OSH HW20-018**

**Batch Size: 4535g**

**Sampling Method/SOP: SOP.T.20.010**

### Pesticides

*Date/Time Extracted: 03/17/20 14:25*

*Date/Time Analyzed: 3/18/2020 9:46:00AM*

*Analysis Method/SOP: SOP.T.40.051 PDX*

Analyte	LOQ	Action Level	Result	Field Dup Result	Units	Type
Abamectin	0.200	0.5	< LOQ	< LOQ	ppm	
Acephate	0.200	0.4	< LOQ	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	1.00	2	< LOQ	< LOQ	ppm	
Acetamiprid	0.100	0.2	< LOQ	< LOQ	ppm	Neonicotinoid insecticide
Aldicarb	0.200	0.4	< LOQ	< LOQ	ppm	Carbamate insecticide
Azoxystrobin	0.100	0.2	< LOQ	< LOQ	ppm	
Bifenazate	0.100	0.2	< LOQ	< LOQ	ppm	Unclassified insecticide
Bifenthrin	0.100	0.2	< LOQ	< LOQ	ppm	
Boscalid	0.200	0.4	< LOQ	< LOQ	ppm	Anilide fungicide
Carbaryl	0.100	0.2	< LOQ	< LOQ	ppm	Carbamate insecticide
Carbofuran	0.100	0.2	< LOQ	< LOQ	ppm	Carbamate insecticide
Chlorantraniliprole	0.100	0.2	< LOQ	< LOQ	ppm	Anthranilic diamide insecticide
Chlorfenapyr	0.400	1	< LOQ	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.100	0.2	< LOQ	< LOQ	ppm	Organophosphate insecticide
Clofentezine	0.100	0.2	< LOQ	< LOQ	ppm	
Cyfluthrin	0.400	1	< LOQ	< LOQ	ppm	
Cypermethrin	0.400	1	< LOQ	< LOQ	ppm	
Daminozide	0.400	1	< LOQ	< LOQ	ppm	
DDVP (Dichlorvos)	0.400	1	< LOQ	< LOQ	ppm	
Diazinon	0.100	0.2	< LOQ	< LOQ	ppm	Organophosphate insecticide
Dimethoate	0.100	0.2	< LOQ	< LOQ	ppm	
Ethoprophos	0.100	0.2	< LOQ	< LOQ	ppm	
Etofenprox	0.200	0.4	< LOQ	< LOQ	ppm	
Etoxazole	0.100	0.2	< LOQ	< LOQ	ppm	Unclassified miticide
Fenoxycarb	0.100	0.2	< LOQ	< LOQ	ppm	
Fenpyroximate	0.200	0.4	< LOQ	< LOQ	ppm	
Fipronil	0.200	0.4	< LOQ	< LOQ	ppm	Pyrazole insecticide
Fonicamid	0.400	1	< LOQ	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.200	0.4	< LOQ	< LOQ	ppm	non-systemic fungicide
Hexythiazox	0.400	1	< LOQ	< LOQ	ppm	
Imazalil	0.100	0.2	< LOQ	< LOQ	ppm	Azole fungicide
Imidacloprid	0.200	0.4	< LOQ	< LOQ	ppm	Neonicotinoid insecticide
Kresoxim-methyl	0.200	0.4	< LOQ	< LOQ	ppm	
Malathion	0.100	0.2	< LOQ	< LOQ	ppm	
Metalaxyl	0.100	0.2	< LOQ	< LOQ	ppm	
Methiocarb	0.100	0.2	< LOQ	< LOQ	ppm	Carbamate insecticide



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**Act 1 Essentials**  
**AG-R1045887IHH**

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**METRC Batch #:**

**Matrix: Extract/Concentrate**

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**Date Accepted: 03/09/20**

**Batch ID: SHHW-2020-OSH HW20-018**

**Batch Size: 4535g**

**Sampling Method/SOP: SOP.T.20.010**

### Pesticides

*Date/Time Extracted: 03/17/20 14:25*

*Date/Time Analyzed: 3/18/2020 9:46:00AM*

*Analysis Method/SOP: SOP.T.40.051 PDX*

Analyte	LOQ	Action Level	Result	Field Dup Result	Units	Type
Methomyl	0.200	0.4	< LOQ	< LOQ	ppm	Carbamate insecticide
Methyl parathion	0.100	0.2	< LOQ	< LOQ	ppm	
MGK-264	0.100	0.2	< LOQ	< LOQ	ppm	
Myclobutanil	0.100	0.2	< LOQ	< LOQ	ppm	Azole fungicide
Naled	0.200	0.5	< LOQ	< LOQ	ppm	
Oxamyl	0.400	1	< LOQ	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.200	0.4	< LOQ	< LOQ	ppm	Azole plant growth regulator
Permethrins	0.100	0.2	< LOQ	< LOQ	ppm	
Phosmet	0.100	0.2	< LOQ	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	1.00	2	< LOQ	< LOQ	ppm	
Prallethrin	0.100	0.2	< LOQ	< LOQ	ppm	
Propiconazole	0.200	0.4	< LOQ	< LOQ	ppm	
Propoxur	0.100	0.2	< LOQ	< LOQ	ppm	Carbamate insecticide
Pyrethrins	0.400	1	< LOQ	< LOQ	ppm	
Pyridaben	0.100	0.2	< LOQ	< LOQ	ppm	Unclassified insecticide
Spinosad	0.100	0.2	< LOQ	< LOQ	ppm	Spinosyn insecticide
Spiromesifen	0.100	0.2	< LOQ	< LOQ	ppm	Keto-enol insecticide
Spirotetramat	0.100	0.2	< LOQ	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.200	0.4	< LOQ	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.200	0.4	< LOQ	< LOQ	ppm	
Thiacloprid	0.100	0.2	< LOQ	< LOQ	ppm	
Thiamethoxam	0.100	0.2	< LOQ	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.100	0.2	< LOQ	< LOQ	ppm	Strobin fungicide

**Results above the action level fail Oregon state testing requirements and will be highlighted RED.**

LOQ= Limit of Quantitation; PPM= Parts per million; ND= Not detected; NT= Not tested; AC= Above calibration range. PASS/FAIL status based on OAR 333-007.



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**Act 1 Essentials**

**AG-R1045887IHH**

Sample ID: P200266-01      METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 03/09/20 09:00

Date Accepted: 03/09/20

Batch ID: SHHW-2020-OSH HW20-018

Batch Size: 4535g

Sampling Method/SOP: SOP.T.20.010

### Residual Solvents

Analyte	LOQ	Action Level	Result	Field Dup Result	RPD	Units
<b>Butanes</b>	250	5000 <sup>3</sup>	< LOQ	< LOQ	NA	ppm
n-Butane	250	5000	< LOQ	< LOQ	NA	ppm
iso-Butane	250	5000	< LOQ	< LOQ	NA	ppm
<b>Hexanes</b>	174	290 <sup>4</sup>	< LOQ	< LOQ	NA	ppm
n-Hexane	174	290	< LOQ	< LOQ	NA	ppm
2-Methylpentane	174	290	< LOQ	< LOQ	NA	ppm
3-Methylpentane	174	290	< LOQ	< LOQ	NA	ppm
2,2-Dimethylbutane	174	290	< LOQ	< LOQ	NA	ppm
2,3-Dimethylbutane	174	290	< LOQ	< LOQ	NA	ppm
<b>Pentanes</b>	1400	5000 <sup>5</sup>	< LOQ	< LOQ	NA	ppm
n-Pentane	1400	5000	< LOQ	< LOQ	NA	ppm
iso-Pentane	1400	5000	< LOQ	< LOQ	NA	ppm
Neopentane	250	5000	< LOQ	< LOQ	NA	ppm
<b>Xylenes</b>	1302	2170	< LOQ	< LOQ	NA	ppm
1,2-Dimethylbenzene	1302	2170	< LOQ	< LOQ	NA	ppm
1,3-Dimethylbenzene	1302	2170	< LOQ	< LOQ	NA	ppm
1,4-Dimethylbenzene	1302	2170	< LOQ	< LOQ	NA	ppm
Xylenes MP	1302	2170	< LOQ	< LOQ	NA	ppm
Ethyl benzene	1302	NA	< LOQ	< LOQ	NA	ppm
2-Propanol (IPA)	1400	5000	< LOQ	< LOQ	NA	ppm
Acetone	1400	5000	< LOQ	< LOQ	NA	ppm
Acetonitrile	246	410	< LOQ	< LOQ	NA	ppm
Benzene	1.2	2	< LOQ	< LOQ	NA	ppm
Methanol	1000	3000	< LOQ	< LOQ	NA	ppm
Propane	250	5000	< LOQ	< LOQ	NA	ppm
Toluene	534	890	< LOQ	< LOQ	NA	ppm
Dichloromethane	360	600	< LOQ	< LOQ	NA	ppm
1,4-Dioxane	228	380	< LOQ	< LOQ	NA	ppm
2-Butanol	1400	5000	< LOQ	< LOQ	NA	ppm
2-Ethoxyethanol	96	160	< LOQ	< LOQ	NA	ppm
Cumene	42	70	< LOQ	< LOQ	NA	ppm
Cyclohexane	2278	3880	< LOQ	< LOQ	NA	ppm
Ethyl acetate	1400	5000	< LOQ	< LOQ	NA	ppm
Ethyl ether	1400	5000	< LOQ	< LOQ	NA	ppm
Ethylene glycol	372	620	< LOQ	< LOQ	NA	ppm
Ethylene oxide	30	50	< LOQ	< LOQ	NA	ppm
Heptane	1400	5000	< LOQ	< LOQ	NA	ppm
Isopropyl acetate	1400	5000	< LOQ	< LOQ	NA	ppm
Tetrahydrofuran	432	720	< LOQ	< LOQ	NA	ppm

Date/Time Extracted: 03/17/20 10:52

Date/Time Analyzed: 03/18/20 10:17

Analysis Method/SOP: SOP.T.40.031

**3** - Total butanes are calculated as sum of n-butanenes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

**4** - Total hexanes are calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

**5** - Total pentanes are calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

**6** - Total xylenes are calculated as 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1-4-dimethylbenzene (CAS# 106-42-3)

**7** - Ethanol is not regulated under OAR-333-007-0410.

Results above the action level fail Oregon state testing requirements and will be highlighted **RED**. LOQ=Limit of Quantitation; PPM=Parts per million; ND=Not detected; NT=Not tested; AC=Above calibration range. PASS/FAIL status based on OAR 333-007.



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Laboratory Manager - 3/18/2020

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**FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES**

## USDA Certified Organic Co

Act 1 Essentials

AG-R1045887IHH

Sample ID: P200266-01 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 03/09/20 09:00

Date Accepted: 03/09/20

Batch ID: SHHW-2020-OSH HW20-018

Batch Size: 4535g

Sampling Method/SOP: SOP.T.20.010

### Terpene Analysis

Date/Time Extracted: 03/17/20 14:23

Analysis Method/SOP: SOP.T.40.092

Date/Time Analyzed: 03/18/20 15:07

Analyte	LOQ (%)	Mass (mg/g)	Mass (%)	Analyte	LOQ (%)	Mass (mg/g)	Mass (%)
alpha-Pinene	0.200	2.55	0.255	beta-Pinene	0.200	0.644	0.0644
Camphene	0.200	< LOQ	< LOQ	Sabinene	0.200	< LOQ	< LOQ
Sabinene hydrate	0.200	< LOQ	< LOQ	beta-Myrcene	0.200	10.2	1.02
p-Mentha-1,5-diene	0.200	< LOQ	< LOQ	(+)-3-Carene	0.200	< LOQ	< LOQ
alpha-Terpinene	0.200	< LOQ	< LOQ	gamma-Terpinene	0.200	< LOQ	< LOQ
Limonene	0.200	1.56	0.156	Eucalyptol	0.200	< LOQ	< LOQ
Guaiol	0.200	3.69	0.369	Terpinolene	0.200	< LOQ	< LOQ
Linalool	0.200	2.02	0.202	Camphor	0.200	< LOQ	< LOQ
(+)-Camphor	0.200	< LOQ	< LOQ	(-)-Camphor	0.200	< LOQ	< LOQ
Isopulegol	0.200	< LOQ	< LOQ	Isoborneol	0.200	< LOQ	< LOQ
Borneol	0.200	0.326	0.0326	Hexahydrothymol	0.200	< LOQ	< LOQ
Geraniol	0.200	< LOQ	< LOQ	(+)-Pulegone	0.200	< LOQ	< LOQ
Nerol	0.200	< LOQ	< LOQ	cis-Nerolidol	0.200	< LOQ	< LOQ
trans-Nerolidol	0.200	1.17	0.117	Geranyl acetate	0.200	< LOQ	< LOQ
alpha-Cedrene	0.200	< LOQ	< LOQ	trans-Caryophyllene	0.200	16.9	1.69
Caryophyllene Oxide	0.200	1.04	0.104	alpha-Humulene	0.200	7.13	0.713
Valencene	0.200	< LOQ	< LOQ	alpha-Farnesene	0.200	5.70	0.57
beta-Farnesene	0.200	11.7	1.17	Cedrol	0.200	< LOQ	< LOQ
alpha-Bisabolol	0.200	7.58	0.758	Fenchone	0.200	< LOQ	< LOQ
Fenchyl Alcohol	0.200	0.566	0.0566	trans, beta- Ocimene	0.200	0.286	0.0286
beta, cis- Ocimene	0.200	1.47	0.147	Terpineol	0.200	0.834	0.0834
Total (Sum):						75.37	7.54

Analysis performed on GCMS with confirmation ion identification. Terpene analysis is not ORELAP accredited.  
 Results reported as wet weight, or "as is." LOQ = Limit of Quantitation



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## Quality Control

**Batch: P20C072 - SOP.T.30.060 Pesticide Prep**

Blank(P20C072-BLK1)			Extracted: 03/17/20 14:25		Analyzed: 03/18/20 09:46		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Methyl parathion	< LOQ	0.100 (ppm)	< LOQ	MGK-264	< LOQ	0.100 (ppm)	< LOQ
Chlorfenapyr	< LOQ	0.400 (ppm)	< LOQ	Cyfluthrin	< LOQ	0.400 (ppm)	< LOQ
Cypermethrin	< LOQ	0.400 (ppm)	< LOQ	Abamectin	< LOQ	0.200 (ppm)	< LOQ
Acephate	< LOQ	0.200 (ppm)	< LOQ	Acequinocyl	< LOQ	1.00 (ppm)	< LOQ
Acetamiprid	< LOQ	0.100 (ppm)	< LOQ	Aldicarb	< LOQ	0.200 (ppm)	< LOQ
Azoxystrobin	< LOQ	0.100 (ppm)	< LOQ	Bifenazate	< LOQ	0.100 (ppm)	< LOQ
Bifenthrin	< LOQ	0.100 (ppm)	< LOQ	Boscalid	< LOQ	0.200 (ppm)	< LOQ
Carbaryl	< LOQ	0.100 (ppm)	< LOQ	Carbofuran	< LOQ	0.100 (ppm)	< LOQ
Chlorantraniliprole	< LOQ	0.100 (ppm)	< LOQ	Chlorpyrifos	< LOQ	0.100 (ppm)	< LOQ
Clofentezine	< LOQ	0.100 (ppm)	< LOQ	Daminozide	< LOQ	0.400 (ppm)	< LOQ
DDVP (Dichlorvos)	< LOQ	0.400 (ppm)	< LOQ	Diazinon	< LOQ	0.100 (ppm)	< LOQ
Dimethoate	< LOQ	0.100 (ppm)	< LOQ	Ethoprophos	< LOQ	0.100 (ppm)	< LOQ
Etofenprox	< LOQ	0.200 (ppm)	< LOQ	Etoxazole	< LOQ	0.100 (ppm)	< LOQ
Fenoxycarb	< LOQ	0.100 (ppm)	< LOQ	Fenpyroximate	< LOQ	0.200 (ppm)	< LOQ
Fipronil	< LOQ	0.200 (ppm)	< LOQ	Flonicamid	< LOQ	0.400 (ppm)	< LOQ
Fludioxonil	< LOQ	0.200 (ppm)	< LOQ	Hexythiazox	< LOQ	0.400 (ppm)	< LOQ
Imazalil	< LOQ	0.100 (ppm)	< LOQ	Imidacloprid	< LOQ	0.200 (ppm)	< LOQ
Kresoxim-methyl	< LOQ	0.200 (ppm)	< LOQ	Malathion	< LOQ	0.100 (ppm)	< LOQ
Metalaxyl	< LOQ	0.100 (ppm)	< LOQ	Methiocarb	< LOQ	0.100 (ppm)	< LOQ
Methomyl	< LOQ	0.200 (ppm)	< LOQ	Myclobutanil	< LOQ	0.100 (ppm)	< LOQ
Naled	< LOQ	0.200 (ppm)	< LOQ	Oxamyl	< LOQ	0.400 (ppm)	< LOQ
Paclobutrazol	< LOQ	0.200 (ppm)	< LOQ	Permethrins	< LOQ	0.100 (ppm)	< LOQ
Phosmet	< LOQ	0.100 (ppm)	< LOQ	Piperonyl butoxide	< LOQ	1.00 (ppm)	< LOQ
Prallethrin	< LOQ	0.100 (ppm)	< LOQ	Propiconazole	< LOQ	0.200 (ppm)	< LOQ
Propoxur	< LOQ	0.100 (ppm)	< LOQ	Pyridaben	< LOQ	0.100 (ppm)	< LOQ
Pyrethrins	< LOQ	0.400 (ppm)	< LOQ	Spinosad	< LOQ	0.100 (ppm)	< LOQ
Spiromesifen	< LOQ	0.100 (ppm)	< LOQ	Spirotetramat	< LOQ	0.100 (ppm)	< LOQ
Spiroxamine	< LOQ	0.200 (ppm)	< LOQ	Tebuconazole	< LOQ	0.200 (ppm)	< LOQ
Thiacloprid	< LOQ	0.100 (ppm)	< LOQ	Thiamethoxam	< LOQ	0.100 (ppm)	< LOQ
Trifloxystrobin	< LOQ	0.100 (ppm)	< LOQ				

LCS(P20C072-BS1)			Extracted: 03/17/20 14:25		Analyzed: 03/18/20 09:46		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Methyl parathion	101	0.100 (ppm)	50-150	MGK-264	93.0	0.100 (ppm)	50-150
Chlorfenapyr	93.6	0.400 (ppm)	50-150	Cyfluthrin	98.8	0.400 (ppm)	50-150
Cypermethrin	91.3	0.400 (ppm)	50-150	Abamectin	115	0.200 (ppm)	50-150
Acephate	89.5	0.200 (ppm)	50-150	Acequinocyl	79.9	1.00 (ppm)	50-150



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## Quality Control

**Batch: P20C072 - SOP.T.30.060 Pesticide Prep (Continued)**

LCS(P20C072-BS1)			Extracted: 03/17/20 14:25		Analyzed: 03/18/20 09:46		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Acetamiprid	92.1	0.100 (ppm)	50-150	Aldicarb	98.6	0.200 (ppm)	50-150
Azoxystrobin	97.7	0.100 (ppm)	50-150	Bifenazate	84.1	0.100 (ppm)	50-150
Bifenthrin	97.0	0.100 (ppm)	50-150	Boscalid	95.7	0.200 (ppm)	50-150
Carbaryl	94.9	0.100 (ppm)	50-150	Carbofuran	96.2	0.100 (ppm)	50-150
Chlorantraniliprole	98.4	0.100 (ppm)	50-150	Chlorpyrifos	85.5	0.100 (ppm)	50-150
Clofentezine	87.6	0.100 (ppm)	50-150	Daminozide	96.3	0.400 (ppm)	50-150
DDVP (Dichlorvos)	94.1	0.400 (ppm)	50-150	Diazinon	88.0	0.100 (ppm)	50-150
Dimethoate	89.9	0.100 (ppm)	50-150	Ethoprophos	93.6	0.100 (ppm)	50-150
Etofenprox	94.0	0.200 (ppm)	50-150	Etoxazole	90.7	0.100 (ppm)	50-150
Fenoxycarb	85.4	0.100 (ppm)	50-150	Fenpyroximate	97.3	0.200 (ppm)	50-150
Fipronil	116	0.200 (ppm)	50-150	Flonicamid	98.1	0.400 (ppm)	50-150
Fludioxonil	120	0.200 (ppm)	50-150	Hexythiazox	87.7	0.400 (ppm)	50-150
Imazalil	83.4	0.100 (ppm)	50-150	Imidacloprid	91.8	0.200 (ppm)	50-150
Kresoxim-methyl	84.5	0.200 (ppm)	50-150	Malathion	81.3	0.100 (ppm)	50-150
Metalaxyl	89.0	0.100 (ppm)	50-150	Methiocarb	95.8	0.100 (ppm)	50-150
Methomyl	88.4	0.200 (ppm)	50-150	Myclobutanil	83.4	0.100 (ppm)	50-150
Naled	87.1	0.200 (ppm)	50-150	Oxamyl	82.7	0.400 (ppm)	50-150
Paclobutrazol	83.2	0.200 (ppm)	50-150	Permethrins	91.9	0.100 (ppm)	50-150
Phosmet	87.9	0.100 (ppm)	50-150	Piperonyl butoxide	89.6	1.00 (ppm)	50-150
Prallethrin	86.7	0.100 (ppm)	50-150	Propiconazole	84.4	0.200 (ppm)	50-150
Propoxur	95.6	0.100 (ppm)	50-150	Pyridaben	91.9	0.100 (ppm)	50-150
Pyrethrins	86.8	0.400 (ppm)	50-150	Spinosad	104	0.100 (ppm)	50-150
Spiromesifen	90.2	0.100 (ppm)	50-150	Spirotetramat	94.9	0.100 (ppm)	50-150
Spiroxamine	86.5	0.200 (ppm)	50-150	Tebuconazole	86.0	0.200 (ppm)	50-150
Thiacloprid	89.5	0.100 (ppm)	50-150	Thiamethoxam	85.7	0.100 (ppm)	50-150
Trifloxystrobin	92.3	0.100 (ppm)	50-150				

**Batch: P20C083 - SOP.T.40.092 PDX Terpenoid Analysis via GC-MS**

Blank(P20C083-BLK1)			Extracted: 03/17/20 14:23		Analyzed: 03/18/20 15:07		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
alpha-Pinene	< LOQ	0.200 (mg/g)	< LOQ	beta-Pinene	< LOQ	0.200 (mg/g)	< LOQ
Camphene	< LOQ	0.200 (mg/g)	< LOQ	Sabinene	< LOQ	0.200 (mg/g)	< LOQ
Sabinene hydrate	< LOQ	0.200 (mg/g)	< LOQ	beta-Myrcene	< LOQ	0.200 (mg/g)	< LOQ
p-Mentha-1,5-diene	< LOQ	0.200 (mg/g)	< LOQ	(+)-3-Carene	< LOQ	0.200 (mg/g)	< LOQ
alpha-Terpinene	< LOQ	0.200 (mg/g)	< LOQ	gamma-Terpinene	< LOQ	0.200 (mg/g)	< LOQ
Limonene	< LOQ	0.200 (mg/g)	< LOQ	Eucalyptol	< LOQ	0.200 (mg/g)	< LOQ
Guaiol	< LOQ	0.200 (mg/g)	< LOQ	Terpinolene	< LOQ	0.200 (mg/g)	< LOQ



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## Quality Control

**Batch: P20C083 - SOP.T.40.092 PDX Terpenoid Analysis via GC-MS (Continued)**

Blank(P20C083-BLK1)			Extracted: 03/17/20 14:23		Analyzed: 03/18/20 15:07		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Linalool	< LOQ	0.200 (mg/g)	< LOQ	Camphor	< LOQ	0.200 (mg/g)	< LOQ
(+)-Camphor	< LOQ	0.200 (mg/g)	< LOQ	(-)-Camphor	< LOQ	0.200 (mg/g)	< LOQ
Isopulegol	< LOQ	0.200 (mg/g)	< LOQ	Isoborneol	< LOQ	0.200 (mg/g)	< LOQ
Borneol	< LOQ	0.200 (mg/g)	< LOQ	Hexahydrothymol	< LOQ	0.200 (mg/g)	< LOQ
Geraniol	< LOQ	0.200 (mg/g)	< LOQ	(+)-Pulegone	< LOQ	0.200 (mg/g)	< LOQ
Nerol	< LOQ	0.200 (mg/g)	< LOQ	cis-Nerolidol	< LOQ	0.200 (mg/g)	< LOQ
trans-Nerolidol	< LOQ	0.200 (mg/g)	< LOQ	Geranyl acetate	< LOQ	0.200 (mg/g)	< LOQ
alpha-Cedrene	< LOQ	0.200 (mg/g)	< LOQ	trans-Caryophyllene	< LOQ	0.200 (mg/g)	< LOQ
Caryophyllene Oxide	< LOQ	0.200 (mg/g)	< LOQ	alpha-Humulene	< LOQ	0.200 (mg/g)	< LOQ
Valencene	< LOQ	0.200 (mg/g)	< LOQ	alpha-Farnesene	< LOQ	0.200 (mg/g)	< LOQ
beta-Farnesene	< LOQ	0.200 (mg/g)	< LOQ	Cedrol	< LOQ	0.200 (mg/g)	< LOQ
alpha-Bisabolol	< LOQ	0.200 (mg/g)	< LOQ	Fenchone	< LOQ	0.200 (mg/g)	< LOQ
Fenchyl Alcohol	< LOQ	0.200 (mg/g)	< LOQ	trans, beta- Ocimene	< LOQ	0.200 (mg/g)	< LOQ
beta, cis- Ocimene	< LOQ	0.200 (mg/g)	< LOQ	Terpineol	< LOQ	0.200 (mg/g)	< LOQ

**Batch: P20C085 - SOP.T.30.050PDX Prep for Cannabinoids**

Blank(P20C085-BLK1)			Extracted: 03/17/20 12:40		Analyzed: 03/18/20 12:00		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
THCA	< LOQ	0.200 (%)	< LOQ	delta 9-THC	< LOQ	0.200 (%)	< LOQ
delta 8-THC	< LOQ	0.200 (%)	< LOQ	THCV-A	< LOQ	0.200 (%)	< LOQ
THCV	< LOQ	0.200 (%)	< LOQ	CBDA	< LOQ	0.200 (%)	< LOQ
CBD	< LOQ	0.200 (%)	< LOQ	CBDV-A	< LOQ	0.200 (%)	< LOQ
CBDV	< LOQ	0.200 (%)	< LOQ	CBG	< LOQ	0.200 (%)	< LOQ
CBGA	< LOQ	0.200 (%)	< LOQ	CBN	< LOQ	0.200 (%)	< LOQ
CBC	< LOQ	0.200 (%)	< LOQ	Sum of tested Cannabinoid:	< LOQ	0.200 (%)	< LOQ

LCS(P20C085-BS1)			Extracted: 03/17/20 12:40		Analyzed: 03/18/20 12:00		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
THCA	98.3	0.200 (%)	70-130	delta 9-THC	107	0.200 (%)	70-130
CBDA	102	0.200 (%)	70-130	CBD	105	0.200 (%)	70-130

**Batch: P20C087 - SOP.T.40.031 Solvents**

Blank(P20C087-BLK1)			Extracted: 03/17/20 10:52		Analyzed: 03/18/20 10:17		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	250 (ppm)	< LOQ	n-Butane	< LOQ	250 (ppm)	< LOQ
iso-Butane	< LOQ	250 (ppm)	< LOQ	Hexanes	< LOQ	174 (ppm)	< LOQ
n-Hexane	< LOQ	174 (ppm)	< LOQ	2-Methylpentane	< LOQ	174 (ppm)	< LOQ
3-Methylpentane	< LOQ	174 (ppm)	< LOQ				



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## Quality Control

**Batch: P20C087 - SOP.T.40.031 Solvents (Continued)**

Blank(P20C087-BLK1)			Extracted: 03/17/20 10:52		Analyzed: 03/18/20 10:17		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
2,2-Dimethylbutane	< LOQ	174 (ppm)	< LOQ	2,3-Dimethylbutane	< LOQ	174 (ppm)	< LOQ
Pentanes	< LOQ	1400 (ppm)	< LOQ	n-Pentane	< LOQ	1400 (ppm)	< LOQ
iso-Pentane	< LOQ	1400 (ppm)	< LOQ	Neopentane	< LOQ	250 (ppm)	< LOQ
Xylenes	< LOQ	1302 (ppm)	< LOQ	1,2-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ
1,3-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	1,4-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ
Xylenes MP	< LOQ	1302 (ppm)	< LOQ	Ethyl benzene	< LOQ	1302 (ppm)	< LOQ
2-Propanol (IPA)	< LOQ	1400 (ppm)	< LOQ	Acetone	< LOQ	1400 (ppm)	< LOQ
Acetonitrile	< LOQ	246 (ppm)	< LOQ	Benzene	< LOQ	1.2 (ppm)	< LOQ
Methanol	< LOQ	1000 (ppm)	< LOQ	Propane	< LOQ	250 (ppm)	< LOQ
Toluene	< LOQ	534 (ppm)	< LOQ	Dichloromethane	< LOQ	360 (ppm)	< LOQ
1,4-Dioxane	< LOQ	228 (ppm)	< LOQ	2-Butanol	< LOQ	1400 (ppm)	< LOQ
2-Ethoxyethanol	< LOQ	96 (ppm)	< LOQ	Cumene	< LOQ	42 (ppm)	< LOQ
Cyclohexane	< LOQ	2278 (ppm)	< LOQ	Ethyl acetate	< LOQ	1400 (ppm)	< LOQ
Ethyl ether	< LOQ	1400 (ppm)	< LOQ	Ethylene glycol	< LOQ	372 (ppm)	< LOQ
Ethylene oxide	< LOQ	30 (ppm)	< LOQ	Heptane	< LOQ	1400 (ppm)	< LOQ
Isopropyl acetate	< LOQ	1400 (ppm)	< LOQ	Tetrahydrofuran	< LOQ	432 (ppm)	< LOQ

LCS(P20C087-BS1)			Extracted: 03/17/20 10:52		Analyzed: 03/18/20 10:17		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	77.5	(ppm)	0-200	n-Butane	81.0	(ppm)	50-150
iso-Butane	74.0	(ppm)	50-150	Hexanes	105	(ppm)	0-200
n-Hexane	104	(ppm)	70-130	2-Methylpentane	104	(ppm)	70-130
3-Methylpentane	104	(ppm)	70-130	2,2-Dimethylbutane	105	(ppm)	70-130
2,3-Dimethylbutane	106	(ppm)	70-130	Pentanes	114	(ppm)	0-200
n-Pentane	106	(ppm)	70-130	iso-Pentane	106	(ppm)	70-130
Neopentane	84.6	(ppm)	50-150	Xylenes	91.8	(ppm)	0-200
1,2-Dimethylbenzene	90.8	(ppm)	70-130	1,3-Dimethylbenzene	92.1	(ppm)	70-130
1,4-Dimethylbenzene	92.8	(ppm)	70-130	Xylenes MP	91.7	(ppm)	0-200
Ethyl benzene	92.4	(ppm)	70-130	2-Propanol (IPA)	105	(ppm)	70-130
Acetone	106	(ppm)	70-130	Acetonitrile	106	(ppm)	70-130
Benzene	99.1	(ppm)	70-130	Methanol	104	(ppm)	70-130
Propane	53.5	(ppm)	50-150	Toluene	99.2	(ppm)	70-130
Dichloromethane	102	(ppm)	70-130	1,4-Dioxane	104	(ppm)	70-130
2-Butanol	104	(ppm)	70-130	2-Ethoxyethanol	105	(ppm)	70-130
Cumene	89.2	(ppm)	50-150	Cyclohexane	101	(ppm)	70-130
Ethyl acetate	106	(ppm)	70-130	Ethyl ether	105	(ppm)	70-130
Ethylene glycol	104	(ppm)	70-130	Ethylene oxide	106	(ppm)	50-150



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## Quality Control

Batch: P20C087 - SOP.T.40.031 Solvents (Continued)

LCS(P20C087-BS1)			Extracted: 03/17/20 10:52		Analyzed: 03/18/20 10:17		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Heptane	103	(ppm)	70-130	Isopropyl acetate	106	(ppm)	70-130
Tetrahydrofuran	105	(ppm)	70-130				



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