



Potency Results

Sample Name: *Sour Hawaiian Haze*
Client: Farm 166
Client Batch ID:

Pinnacle-Analytics.com
 3549 Lear Way, Suite 101
 Medford OR 97504
 P:(541)300-8217

Sample ID: rC-H-332-D2213

Date Sampled: 12/12/2023
 Date Reported: 12/15/2023 Client
 License: *Redacted*
 For R&D Purposes Only

Matrix: Flower

Prep Analyst: Jeff A.

Analysis Method: 0630322+1 H3 4-20-2022 #1.lcm

Sampling Method: N/A

Reference Method: JCB 2009: HPLC/DAD

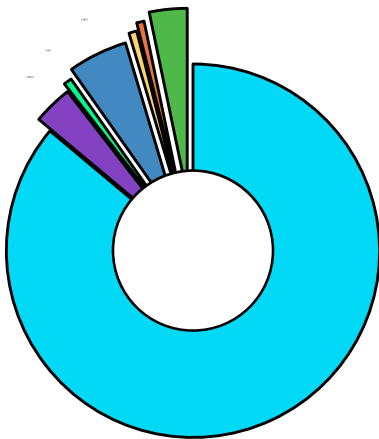
Analysis Batch: 12-14-2023 H3 48, 116, 185, 332, 422 Flower

Total THC (THCA*0.877+d9-THC)	0.638%
Total CBD (CBDA*0.877+CBD)	14.4%
Moisture Content	13.8%
Water Activity	0.48

Cannabinoid	% Weight	mg/g
CBDVA	<LOQ	<LOQ
CBDV	<LOQ	<LOQ
CBDA*	15.4	154.0
CBGA	0.612	6.12
CBG	0.125	1.25
CBD*	0.925	9.25
THCV	<LOQ	<LOQ
CBN	<LOQ	<LOQ
d9-THC*	0.124	1.24
d8-THC*	<LOQ	<LOQ
CBC	0.116	1.16
THCA*	0.586	5.86
Total Cannabinoids	17.89	179.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.1%, analyte not measured



■ CBDA*	■ CBD*	■ THCA*
■ CBGA	■ d9-THC*	
■ CBG	■ CBC	



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 Report generated by Routine_Potency_Rev13_8-1-2023

Kris Ford, PhD
 Lab Director



Quality Control Results

Analyst: Jeff A.

Analysis Batch: 12-14-2023 H3 48, 116, 185, 332, 422 Flower

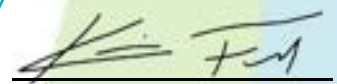
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	Duplicate RPD		LCS % Recovery		Method Blank	
	H-0-D2209-b	Limit	C-FL-121423	Limits	C-FB-121423	Limit
CBDA	4.28%	10%	104.0%	90-110%	<LOQ/2	LOQ/2
CBD	6.34%	10%	105.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	<LOQ%	30%	94.5%	90-110%	<LOQ/2	LOQ/2
d8-THC	<LOQ%	30%	99.4%	90-110%	<LOQ/2	LOQ/2
THCA	4.7%	10%	100.0%	90-110%	<LOQ/2	LOQ/2

RPD: Relative Percent Difference between unknown sample and its duplicate
 LCS: Laboratory Control Sample with known concentration
 Case Comments: There were no divergences from ordinary Quality Control procedures or SOPs.



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 Report generated by Routine_Potency_Rev13_8-1-2023


 Kris Ford, PhD
 Lab Director

PREE Laboratories - South
545 SW 2nd St, #202, Corvallis, OR 97333
541-257-5002 / OLCC 010-10087092BDA / www.PREElab.com

Safety Comp-D2213,2214,2215,2223

Pinnacle Analytics

010-101599328A3

Sample ID: C231810-06

METRC Batch #:

Matrix: Hemp

Date Sampled: 12/13/23 11:20

Date Accepted: 12/13/23

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 12/19/23 08:33

Date/Time Analyzed: 12/20/2023 6:40:00PM

Analysis Method/SOP: LSOP #307

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ	Action Level	Result	Units	Type
Acephate	0.0200	0.4	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	0.100	2	< LOQ	ppm	
Acetamiprid	0.0200	0.2	< LOQ	ppm	Neonicotinoid insecticide
Aldicarb	0.0200	0.4	< LOQ	ppm	Carbamate insecticide
Avermectin B1	0.200	0.5	< LOQ	ppm	
Azoxystrobin	0.0200	0.2	< LOQ	ppm	
Bifenazate	0.0200	0.2	< LOQ	ppm	Unclassified insecticide
Bifenthrin	0.100	0.2	< LOQ	ppm	
Boscalid	0.0200	0.4	< LOQ	ppm	Anilide fungicide
Carbaryl	0.0200	0.2	< LOQ	ppm	Carbamate insecticide
Carbofuran	0.0200	0.2	< LOQ	ppm	Carbamate insecticide
Chlorantraniliprole	0.0200	0.2	< LOQ	ppm	Anthranilic diamide insecticide
Chlorfenapyr	0.500	1	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.0200	0.2	< LOQ	ppm	Organophosphate insecticide
Clofentezine	0.100	0.2	< LOQ	ppm	
Cyfluthrin	0.500	1	< LOQ	ppm	
Cypermethrin	0.500	1	< LOQ	ppm	
Daminozide	0.100	1	< LOQ	ppm	
DDVP (Dichlorvos)	0.100	1	< LOQ	ppm	
Diazinon	0.0200	0.2	< LOQ	ppm	Organophosphate insecticide
Dimethoate	0.0200	0.2	< LOQ	ppm	
Ethoprophos	0.0200	0.2	< LOQ	ppm	
Etofenprox	0.100	0.4	< LOQ	ppm	
Etoxazole	0.0200	0.2	< LOQ	ppm	Unclassified miticide
Fenoxycarb	0.0200	0.2	< LOQ	ppm	
Fenpyroximate	0.100	0.4	< LOQ	ppm	
Fipronil	0.0200	0.4	< LOQ	ppm	Pyrazole insecticide
Flonicamid	0.0200	1	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.100	0.4	< LOQ	ppm	non-systemic fungicide
Hexythiazox	0.0200	1	< LOQ	ppm	
Imazalil	0.0200	0.2	< LOQ	ppm	Azole fungicide
Imidacloprid	0.0200	0.4	< LOQ	ppm	Neonicotinoid insecticide
Kresoxim-methyl	0.100	0.4	< LOQ	ppm	
Malathion	0.0200	0.2	< LOQ	ppm	
Metalaxyl	0.0200	0.2	< LOQ	ppm	
Methiocarb	0.0200	0.2	< LOQ	ppm	Carbamate insecticide
Methomyl	0.0200	0.4	< LOQ	ppm	Carbamate insecticide



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Pinnacle Analytics

010-101599328A3

Sample ID: C231810-06

METRC Batch #:

Matrix: Hemp

Date Sampled: 12/13/23 11:20

Date Accepted: 12/13/23

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 12/19/23 08:33

Date/Time Analyzed: 12/20/2023 6:40:00PM

Analysis Method/SOP: LSOP #307

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ	Action Level	Result	Units	Type
Methyl parathion	0.100	0.2	< LOQ	ppm	
MGK I	0.100	0.2	< LOQ	ppm	
MGK II	0.100	0.2	< LOQ	ppm	
MGK-264 (Both)	0.100	0.2	< LOQ	ppm	
Myclobutanil	0.100	0.2	< LOQ	ppm	Azole fungicide
Naled	0.0200	0.5	< LOQ	ppm	
Oxamyl	0.0200	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.0200	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins (Both)	0.100	0.2	< LOQ	ppm	
Permethrins Cis	0.100	0.2	< LOQ	ppm	
Permethrins Trans	0.100	0.2	< LOQ	ppm	
Phosmet	0.0200	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	0.0200	2	< LOQ	ppm	
Prallethrin	0.100	0.2	< LOQ	ppm	
Propiconazole	0.100	0.4	< LOQ	ppm	
Propoxur	0.0200	0.2	< LOQ	ppm	Carbamate insecticide
Pyrethrins (All 3)	0.500	1	< LOQ	ppm	
Pyrethrins Cinerin	0.500	1	< LOQ	ppm	
Pyrethrins Jasmolin	0.500	1	< LOQ	ppm	
Pyrethrins Pyrethrin	0.500	1	< LOQ	ppm	
Pyridaben	0.0200	0.2	< LOQ	ppm	Unclassified insecticide
Spinosad (Both)	0.100	0.2	< LOQ	ppm	
Spinosyn A	0.100	0.2	< LOQ	ppm	
Spinosyn D	0.100	0.2	< LOQ	ppm	
Spiromesifen	0.100	0.2	< LOQ	ppm	Keto-enol insecticide
Spirotetramat	0.0200	0.2	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.0200	0.4	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.0200	0.4	< LOQ	ppm	
Thiacloprid	0.0200	0.2	< LOQ	ppm	
Thiamethoxam	0.0200	0.2	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.0200	0.2	< 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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Safety Comp-D2213,2214,2215,2223

Pinnacle Analytics

010-101599328A3

Sample ID: C231810-06

METRC Batch #:

Matrix: Hemp

Date Sampled: 12/13/23 11:20

Date Accepted: 12/13/23

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Microbial Analysis

Date/Time Extracted: 12/18/23 08:58

Date/Time Analyzed: 12/19/2023 3:32:46PM

Analysis Method/SOP: LSOP #310

Sample extracted and analyzed at PREE Lab - South

Analyte	Result	Units	Pass/Fail
Salmonella spp.	Absent	/g	PASS
STEC E. coli	Absent	/g	PASS

Analytical instrumentation: Thomas Scientific Applied Biosystem qPCR located at PREE Lab - South



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Safety Comp-D2213,2214,2215,2223

Pinnacle Analytics

010-101599328A3

Sample ID: C231810-06

Matrix: Hemp

METRC Batch #:

Date Sampled: 12/13/23 11:20

Date Accepted: 12/13/23

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Heavy Metals Analysis

Date Extracted: 12/15/23

Date Analyzed: 12/19/23

Analysis Method/SOP: LSOP #309

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ (ug/g)	Action Level (ug/g)	Result (ug/g)
Mercury	0.0400	0.1	ND
Lead	0.160	0.5	ND
Cadmium	0.0800	0.2	0.107
Arsenic	0.0800	0.2	ND

LOQ= Limit of Quantitation; ND= Not Detected;
The reported result is based on sample weight for this sample;
Analytical instrumentation: Agilent 7850 ICP-MS located at PREE Lab - South



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Safety Comp-D2213,2214,2215,2223

Pinnacle Analytics

010-101599328A3

Sample ID: C231810-06

Matrix: Hemp

METRC Batch #:

Date Sampled: 12/13/23 11:20

Date Accepted: 12/13/23

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Mycotoxins

Date Extracted: 12/19/23

Date Analyzed: 12/19/23

Analysis Method/SOP: LSOP #308

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ (ug/g)	Action Level	Result (ug/g)
Total Aflatoxins	0.0100	0.02	ND
Ochratoxin A	0.0100	0.02	ND
Aflatoxin G2	0.0100	0.02	ND
Aflatoxin G1	0.0100	0.02	ND
Aflatoxin B2	0.0100	0.02	ND
Aflatoxin B1	0.0100	0.02	ND

LOQ= Limit of Quantitation; ND= Not Detected;
The reported result is based on sample weight for this sample;
Analytical instrumentation: Sciex Triple Quad 6500



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Quality Control

Batch: C23L084 - LSOP #309 Heavy Metal Quantification

Blank(C23L084-BLK1)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 15:02			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Arsenic	< LOQ	0.0800 (ug/g)	< LOQ		Lead	< LOQ	0.160 (ug/g)	< LOQ	
Mercury	< LOQ	0.0400 (ug/g)	< LOQ		Cadmium	< LOQ	0.0800 (ug/g)	< LOQ	

Blank(C23L084-BLK2)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 15:11			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Arsenic	< LOQ	0.0800 (ug/g)	< LOQ		Lead	< LOQ	0.160 (ug/g)	< LOQ	
Mercury	< LOQ	0.0400 (ug/g)	< LOQ		Cadmium	< LOQ	0.0800 (ug/g)	< LOQ	

LCS(C23L084-BS1)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 15:06			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	96.4	0.0800 (ug/g)	80-115		Lead	101	0.160 (ug/g)	80-115	
Mercury	87.6	0.0400 (ug/g)	80-115		Cadmium	91.7	0.0800 (ug/g)	80-115	

LCS(C23L084-BS2)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 15:15			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	96.4	0.0800 (ug/g)	80-115		Lead	96.2	0.160 (ug/g)	80-115	
Mercury	91.0	0.0400 (ug/g)	80-115		Cadmium	91.2	0.0800 (ug/g)	80-115	

LCS Dup(C23L084-BSD1)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 16:50			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	98.5	0.0800 (ug/g)	80-115		Lead	100	0.160 (ug/g)	80-115	
Mercury	88.5	0.0400 (ug/g)	80-115		Cadmium	91.7	0.0800 (ug/g)	80-115	

LCS Dup(C23L084-BSD2)			Extracted: 12/15/23 16:29			Analyzed: 12/19/23 16:54			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	97.9	0.0800 (ug/g)	80-115		Lead	96.1	0.160 (ug/g)	80-115	
Mercury	92.2	0.0400 (ug/g)	80-115		Cadmium	92.5	0.0800 (ug/g)	80-115	

Batch: C23L085 - LSOP #310 Microbial Analysis

Blank(C23L085-BLK1)			Extracted: 12/18/23 08:58			Analyzed: 12/19/23 15:32			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Absent	0.500 (/g)	< LOQ		Salmonella spp.	Absent	0.500 (/g)	< LOQ	

Reference(C23L085-SRM1)			Extracted: 12/18/23 08:58			Analyzed: 12/19/23 15:32			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Present	(/g)	100-100		Salmonella spp.	Present	(/g)	100-100	

Batch: C23L097 - LSOP #308 Mycotoxin Quantification by LCMS



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Quality Control

Batch: C23L097 - LSOP #308 Mycotoxin Quantification by LCMS (Continued)

Blank(C23L097-BLK1)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 20:42			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ	

Blank(C23L097-BLK2)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 20:56			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ	

LCS(C23L097-BS1)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 20:49			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	80.5	(ppm)	60-120		Aflatoxin G2	93.1	(ppm)	60-120	
Aflatoxin G1	94.5	(ppm)	60-120		Aflatoxin B2	82.3	(ppm)	60-120	
Aflatoxin B1	91.4	(ppm)	60-120						

LCS(C23L097-BS2)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 21:02			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	85.1	(ppm)	60-120		Aflatoxin G2	106	(ppm)	60-120	
Aflatoxin G1	103	(ppm)	60-120		Aflatoxin B2	104	(ppm)	60-120	
Aflatoxin B1	103	(ppm)	60-120						

LCS Dup(C23L097-BSD1)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 22:35			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	82.9	(ppm)	60-120		Aflatoxin G2	89.6	(ppm)	60-120	
Aflatoxin G1	93.3	(ppm)	60-120		Aflatoxin B2	79.2	(ppm)	60-120	
Aflatoxin B1	88.5	(ppm)	60-120						

LCS Dup(C23L097-BSD2)			Extracted: 12/19/23 08:37			Analyzed: 12/19/23 22:42			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	86.3	(ppm)	60-120		Aflatoxin G2	102	(ppm)	60-120	
Aflatoxin G1	104	(ppm)	60-120		Aflatoxin B2	101	(ppm)	60-120	
Aflatoxin B1	100	(ppm)	60-120						

Notes and Definitions

Item	Definition
MSDRPD	RPD between MS/MSD is greater than 20%, yet no detections of the applicable analytes in samples.



Carson Newkirk
Laboratory Manager - 12/20/2023