



PINNACLE — ANALYTICS —

Potency Results

Sample Name: *Hawaiian Haze*
Client: Farm 127
Client Batch ID:

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

Sample ID: rC-H-370-D997

Date Sampled: 8/7/2023
Date Reported: 8/10/2023
Client License: *Redacted*

Matrix: Flower

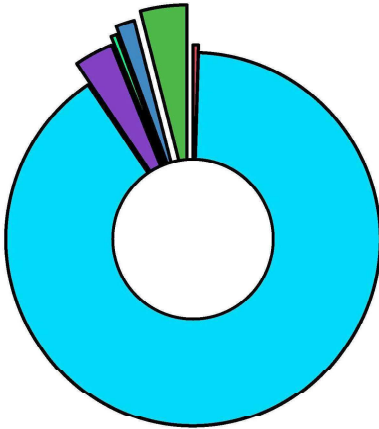
Prep Analyst: Megan E.
Analysis Method: 0630322+1 H3 4-20-2022 #1.lcm
Sampling Method: N/A
Reference Method: JCB 2009: HPLC/DAD
Analysis Batch: 8-7-2023 H3 14, 22, 185, 205, 302, 370 Flower

For R&D Purposes Only

Total THC (THCA*0.877+d9-THC) **0.762%**
Total CBD (CBDA*0.877+CBD) **17.5%**
Moisture Content **12.7%**

Cannabinoid	% Weight	mg/g
CBDVA	0.101	1.01
CBDV	<LOQ	<LOQ
CBDA*	19.5	195.0
CBGA	0.724	7.24
CBG	0.108	1.08
CBD*	0.349	3.49
THCV	<LOQ	<LOQ
CBN	<LOQ	<LOQ
d9-THC*	<LOQ	<LOQ
d8-THC*	<LOQ	<LOQ
CBC	<LOQ	<LOQ
THCA*	0.869	8.69
Total Cannabinoids	21.7	217.0

*ORELAP Accredited Analyte
Limit of Quantitation: 0.1%, analyte not measured



- CBDVA
- CBG
- CBDA*
- CBD*
- CBGA
- THCA*



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Report generated by Routine_Potency_Rev11_4-16-2023

Kris Ford, PhD
Lab Director



PINNACLE — ANALYTICS —

Quality Control Results

Analyst: Megan E.

Analysis Batch: 8-7-2023 H3 14, 22, 185, 205, 302, 370 Flower

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	Duplicate RPD		LCS % Recovery		Method Blank	
	H-0-D992-b	Limit	C-FL-080723	Limits	C-FB-080723	Limit
CBDA	3.93%	10%	103.0%	90-110%	<LOQ/2	LOQ/2
CBD	3.83%	10%	104.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	4.13%	10%	96.6%	90-110%	<LOQ/2	LOQ/2
d8-THC	14.6%	10%	97.6%	90-110%	<LOQ/2	LOQ/2
THCA	12.7%	30%	94.3%	90-110%	<LOQ/2	LOQ/2

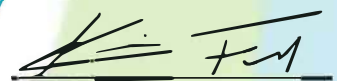
RPD: Relative Percent Difference between unknown sample and its duplicate

LCS: Laboratory Control Sample with known concentration

Case Comments: Matrix duplicate had marginal RPD exceedence due to sample inhomogeneity. All other QC's passed. Results considered valid



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Report generated by Routine_Potency_Rev11_4-16-2023


Kris Ford, PhD
Lab Director

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541-257-5002 / OLCC 010-10087092BDA / www.PREElab.com

127 - SHH - 23 - A

Pinnacle Analytics

010-101599328A3

Confident Cannabis ID: 2310PREE1269.5419

Sample ID: C231490-06

Matrix: Useable Marijuana

METRC Batch #:

Sampling Method/SOP: FSOP #101

Date Sampled: 10/5/2023 9:15:00AM

Date Accepted: 10/05/23

Harvest/Process Lot ID:

Batch ID:

Batch Size (g):

Unit for Sale:

Harvest/Production Date:

Moisture Content

Date/Time Analyzed: 10/10/23 11:15
Analysis Method/SOP: LSOP #301

Moisture: 7.880 %

"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, delta 8-THC, THCA, CBD and 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.



Carson Newkirk
Laboratory Manager - 10/12/2023

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127 - SHH - 23 - A

Date Sampled: 10/05/23 09:15

Pinnacle Analytix

Date Accepted: 10/05/23

010-101599328A3

Batch ID:

Sample ID: C231490-06 METRC Batch #:

Batch Size:

Matrix: Useable Marijuana

Sampling Method/SOP: SOP.T.20.010

Terpene Analysis

Date/Time Extracted: 10/11/23 12:44

Analysis Method/SOP: SOP.T.40.092

Date/Time Analyzed: 10/11/23 20:04

Sample extracted and analyzed at PREE Lab - North

Analyte	LOQ (mg/g)	Mass (mg/g)	Mass (%)	Analyte	LOQ (mg/g)	Mass (mg/g)	Mass (%)
alpha-Pinene	0.100	2.38	0.238	beta-Pinene	0.100	0.847	0.0847
Camphene	0.100	< LOQ	< LOQ	Sabinene	0.100	< LOQ	< LOQ
Sabinene hydrate	0.100	< LOQ	< LOQ	beta-Myrcene	0.100	5.88	0.588
p-Mentha-1,5-diene	0.100	< LOQ	< LOQ	(+)-3-Carene	0.100	< LOQ	< LOQ
alpha-Terpinene	0.100	< LOQ	< LOQ	gamma-Terpinene	0.100	< LOQ	< LOQ
Limonene	0.100	0.724	0.0724	Eucalyptol	0.100	< LOQ	< LOQ
Guaiol	0.100	1.36	0.136	Terpinolene	0.100	< LOQ	< LOQ
Linalool	0.100	0.318	0.0318	Camphor	0.100	< LOQ	< LOQ
(+)-Camphor	0.100	< LOQ	< LOQ	(-)-Camphor	0.100	< LOQ	< LOQ
Isopulegol	0.100	< LOQ	< LOQ	Isoborneol	0.100	< LOQ	< LOQ
Borneol	0.100	0.154	0.0154	Hexahydrothymol	0.100	< LOQ	< LOQ
Geraniol	0.100	0.162	0.0162	(+)-Pulegone	0.100	< LOQ	< LOQ
Nerol	0.100	< LOQ	< LOQ	cis-Nerolidol	0.100	< LOQ	< LOQ
trans-Nerolidol	0.100	0.253	0.0253	Geranyl acetate	0.100	< LOQ	< LOQ
alpha-Cedrene	0.100	< LOQ	< LOQ	trans-Caryophyllene	0.100	1.13	0.113
Caryophyllene Oxide	0.100	0.157	0.0157	alpha-Humulene	0.100	0.535	0.0535
Valencene	0.100	< LOQ	< LOQ	alpha-Farnesene	0.100	< LOQ	< LOQ
beta-Farnesene	0.100	< LOQ	< LOQ	Cedrol	0.100	0.125	0.0125
alpha-Bisabolol	0.100	0.651	0.0651	Fenchone	0.100	< LOQ	< LOQ
Fenchyl Alcohol	0.100	0.184	0.0184	trans, beta- Ocimene	0.100	< LOQ	< LOQ
beta, cis- Ocimene	0.100	0.235	0.0235	Terpineol	0.100	0.378	0.0378
Total (Sum):						15.47	1.55

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



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127 - SHH - 23 - A

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23 09:15

Results Valid Until: 10/04/24

Pinnacle Analytics

010-101599328A3

Sample ID: C231490-06

METRC Batch Package #:

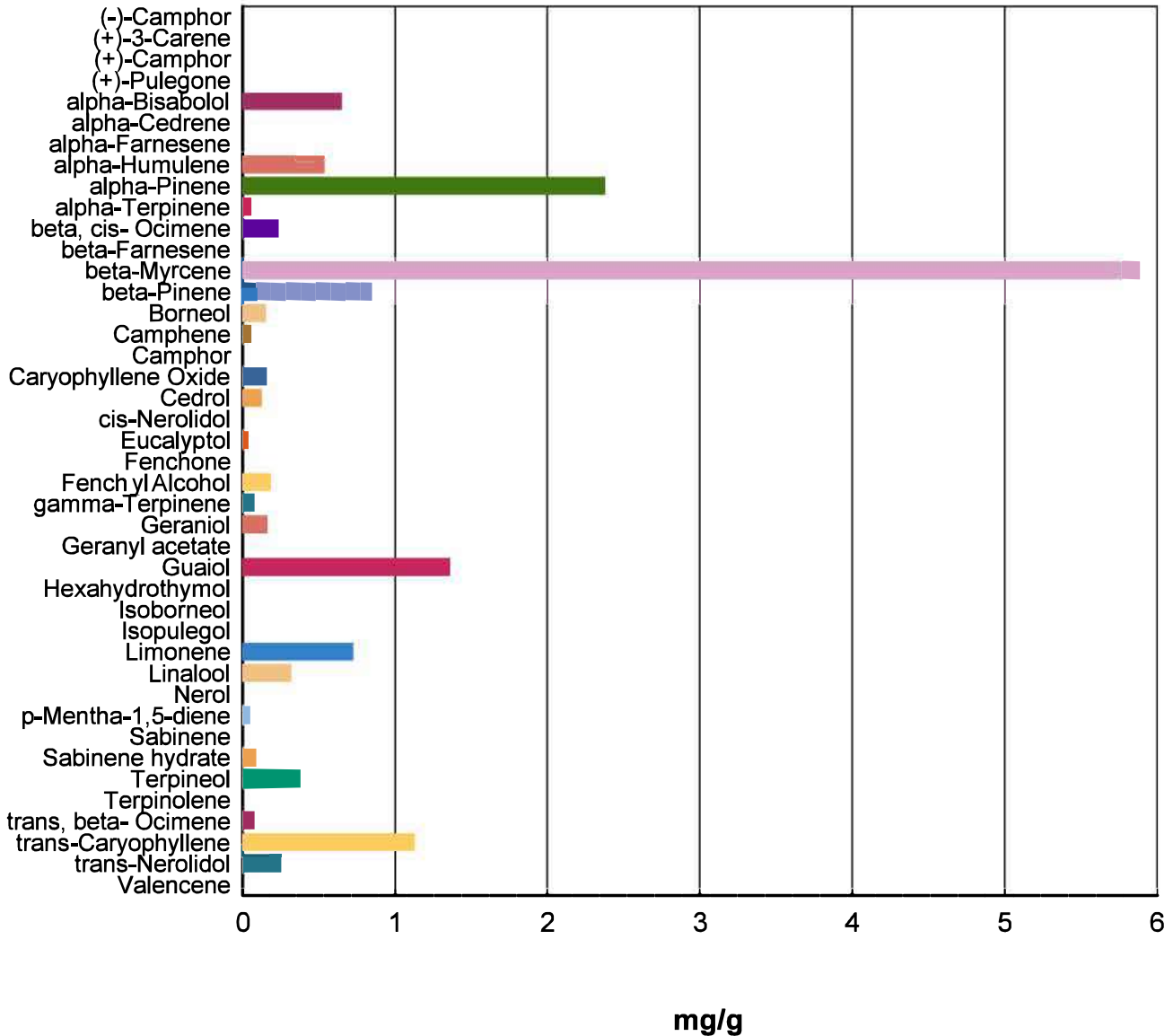
Batch ID:

Batch Size:

Matrix: Useable Marijuana

Sampling Method/SOP: SOP.T.20.010

Terpene Profile



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Notes and Definitions

Item	Definition
HIGH BIAS	High analyte recovery, yet no detection of that analyte in samples.



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Composite Sample (02,03,04,05,06)

Pinnacle Analytics
010-101599328A3

Sample ID: C231490-01

METRC Batch #:

Matrix: Useable Marijuana

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23

Batch ID: 127 - 23 - A

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 10/11/23 10:56

Date/Time Analyzed: 10/12/2023 9:38:00AM

Analysis Method/SOP: SOP.T.40.050 / SOP.T.40.051

Sample extracted and analyzed at PREE Lab - North

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



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Composite Sample (02,03,04,05,06)

Pinnacle Analytics
010-101599328A3

Sample ID: C231490-01

METRC Batch #:

Matrix: Useable Marijuana

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23

Batch ID: 127 - 23 - A

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 10/11/23 10:56

Date/Time Analyzed: 10/12/2023 9:38:00AM

Analysis Method/SOP: SOP.T.40.050 / SOP.T.40.051

Sample extracted and analyzed at PREE Lab - North

Analyte	LOQ	Action Level	Result	Units	Type
Methyl parathion	0.100	0.2	< LOQ	ppm	
MGK-264	0.100	0.2	< LOQ	ppm	
Myclobutanil	0.100	0.2	< LOQ	ppm	Azole fungicide
Naled	0.200	0.5	< LOQ	ppm	
Oxamyl	0.400	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.200	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins	0.100	0.2	< LOQ	ppm	
Phosmet	0.100	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	1.00	2	< LOQ	ppm	
Prallethrin	0.100	0.2	< LOQ	ppm	
Propiconazole	0.200	0.4	< LOQ	ppm	
Propoxur	0.100	0.2	< LOQ	ppm	Carbamate insecticide
Pyrethrins	0.400	1	< LOQ	ppm	
Pyridaben	0.100	0.2	< LOQ	ppm	Unclassified insecticide
Spinosad	0.100	0.2	< LOQ	ppm	Spinosyn insecticide
Spiromesifen	0.100	0.2	< LOQ	ppm	Keto-enol insecticide
Spirotetramat	0.100	0.2	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.200	0.4	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.200	0.4	< LOQ	ppm	
Thiacloprid	0.100	0.2	< LOQ	ppm	
Thiamethoxam	0.100	0.2	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.100	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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Composite Sample (02,03,04,05,06)

Pinnacle Analytics

010-101599328A3

Sample ID: C231490-01

METRC Batch #:

Matrix: Useable Marijuana

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23

Batch ID: 127 - 23 - A

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Microbial Analysis

Date/Time Extracted: 10/06/23 09:28

Date/Time Analyzed: 10/9/2023 3:09:05PM

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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Composite Sample (02,03,04,05,06)

Pinnacle Analytics

010-101599328A3

Sample ID: C231490-01

Matrix: Useable Marijuana

METRC Batch #:

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23

Batch ID: 127 - 23 - A

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Heavy Metals Analysis

Date Extracted: 10/06/23

Date Analyzed: 10/09/23

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	ND
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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Composite Sample (02,03,04,05,06)

Pinnacle Analytics

010-101599328A3

Sample ID: C231490-01

Matrix: Useable Marijuana

METRC Batch #:

Date Sampled: 10/05/23 09:15

Date Accepted: 10/05/23

Batch ID: 127 - 23 - A

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Mycotoxins

Date Extracted: 10/11/23

Date Analyzed: 10/12/23

Analysis Method/SOP: SOP.T.40.080

Sample extracted and analyzed at PREE Lab - North

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: Perkin Elemer Qsight LX50



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Quality Control

Batch: C23J036 - LSOP #310 Microbial Analysis

Blank(C23J036-BLK1)			Extracted: 10/06/23 09:28			Analyzed: 10/09/23 15:09			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Absent	0.500 (fg)	< LOQ		Salmonella spp.	Absent	0.500 (fg)	< LOQ	

Reference(C23J036-SRM1)			Extracted: 10/06/23 09:28			Analyzed: 10/09/23 15:09			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Present	(fg)	100-100		Salmonella spp.	Present	(fg)	100-100	

Batch: C23J040 - LSOP #309 Heavy Metal Quantification

Blank(C23J040-BLK1)			Extracted: 10/06/23 12:25			Analyzed: 10/09/23 11:49			
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(C23J040-BS1)			Extracted: 10/06/23 12:25			Analyzed: 10/09/23 11:53			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	93.4	0.0800 (ug/g)	80-115		Lead	103	0.160 (ug/g)	80-115	
Mercury	96.0	0.0400 (ug/g)	80-115		Cadmium	95.1	0.0800 (ug/g)	80-115	

LCS Dup(C23J040-BSD1)			Extracted: 10/06/23 12:25			Analyzed: 10/09/23 13:28			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	96.4	0.0800 (ug/g)	80-115		Lead	99.7	0.160 (ug/g)	80-115	
Mercury	97.9	0.0400 (ug/g)	80-115		Cadmium	94.7	0.0800 (ug/g)	80-115	

Batch: P23J042 - SOP.T.30.060 Pesticide Prep

Blank(P23J042-BLK1)			Extracted: 10/11/23 10:56			Analyzed: 10/12/23 09:38			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Methyl parathion	< LOQ	0.100 (ppm)	< LOQ		Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ		MGK-264	< LOQ	0.100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Chlorfenapyr	< LOQ	0.400 (ppm)	< LOQ	
Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ		Cyfluthrin	< LOQ	0.400 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Cypermethrin	< LOQ	0.400 (ppm)	< LOQ	
Abamectin	< LOQ	0.200 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (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	



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Quality Control

Batch: P23J042 - SOP.T.30.060 Pesticide Prep (Continued)

Blank(P23J042-BLK1)			Extracted: 10/11/23 10:56		Analyzed: 10/12/23 09:38				
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
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(P23J042-BS1)			Extracted: 10/11/23 10:56		Analyzed: 10/12/23 09:38				
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Methyl parathion	213	0.100 (ppm)	50-150	HIGH BIAS	Ochratoxin A	175	0.0100 (ppm)	60-120	HIGH BIAS
Aflatoxin G2	168	0.0100 (ppm)	60-120	HIGH BIAS	MGK-264	106	0.100 (ppm)	50-150	
Aflatoxin G1	152	0.0100 (ppm)	60-120	HIGH BIAS	Chlorfenapyr	139	0.400 (ppm)	60-120	HIGH BIAS
Aflatoxin B2	155	0.0100 (ppm)	60-120	HIGH BIAS	Cyfluthrin	118	0.400 (ppm)	50-150	
Aflatoxin B1	161	0.0100 (ppm)	60-120	HIGH BIAS	Cypermethrin	114	0.400 (ppm)	50-150	
Abamectin	148	0.200 (ppm)	50-150		Acephate	163	0.200 (ppm)	60-120	HIGH BIAS
Acequinocyl	218	1.00 (ppm)	40-160	HIGH BIAS	Acetamiprid	149	0.100 (ppm)	60-120	HIGH BIAS
Aldicarb	193	0.200 (ppm)	60-120	HIGH BIAS	Azoxystrobin	170	0.100 (ppm)	60-120	HIGH BIAS
Bifenazate	106	0.100 (ppm)	60-120		Bifenthrin	113	0.100 (ppm)	50-150	
Boscalid	165	0.200 (ppm)	60-120	HIGH BIAS	Carbaryl	151	0.100 (ppm)	60-120	HIGH BIAS
Carbofuran	154	0.100 (ppm)	60-120	HIGH BIAS	Chlorantraniliprole	163	0.100 (ppm)	60-120	HIGH BIAS
Chlorpyrifos	107	0.100 (ppm)	60-120		Clofentezine	146	0.100 (ppm)	60-120	HIGH BIAS
Daminozide	144	0.400 (ppm)	60-120	HIGH BIAS	DDVP (Dichlorvos)	128	0.400 (ppm)	60-120	HIGH BIAS
Diazinon	143	0.100 (ppm)	60-120	HIGH BIAS	Dimethoate	155	0.100 (ppm)	60-120	HIGH BIAS



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Laboratory Manager - 10/12/2023

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

Quality Control

Batch: P23J042 - SOP.T.30.060 Pesticide Prep (Continued)

LCS(P23J042-BS1)			Extracted: 10/11/23 10:56			Analyzed: 10/12/23 09:38			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ethoprophos	153	0.100 (ppm)	60-120	HIGH BIAS	Etofenprox	182	0.200 (ppm)	50-150	HIGH BIAS
Etoazole	123	0.100 (ppm)	60-120	HIGH BIAS	Fenoxycarb	171	0.100 (ppm)	60-120	HIGH BIAS
Fenpyroximate	131	0.200 (ppm)	60-120	HIGH BIAS	Fipronil	162	0.200 (ppm)	60-120	HIGH BIAS
Flonicamid	140	0.400 (ppm)	60-120	HIGH BIAS	Fludioxonil	143	0.200 (ppm)	50-150	
Hexythiazox	116	0.400 (ppm)	60-120		Imazalil	170	0.100 (ppm)	60-120	HIGH BIAS
Imidacloprid	155	0.200 (ppm)	60-120	HIGH BIAS	Kresoxim-methyl	155	0.200 (ppm)	60-120	HIGH BIAS
Malathion	167	0.100 (ppm)	60-120	HIGH BIAS	Metalaxyl	158	0.100 (ppm)	60-120	HIGH BIAS
Methiocarb	151	0.100 (ppm)	60-120	HIGH BIAS	Methomyl	154	0.200 (ppm)	60-120	HIGH BIAS
Myclobutanil	155	0.100 (ppm)	60-120	HIGH BIAS	Naled	166	0.200 (ppm)	50-150	HIGH BIAS
Oxamyl	158	0.400 (ppm)	60-120	HIGH BIAS	Paclbutrazol	155	0.200 (ppm)	60-120	HIGH BIAS
Permethrins	159	0.100 (ppm)	50-150	HIGH BIAS	Phosmet	162	0.100 (ppm)	50-150	HIGH BIAS
Piperonyl butoxide	116	1.00 (ppm)	60-120		Prallethrin	147	0.100 (ppm)	60-120	HIGH BIAS
Propiconazole	142	0.200 (ppm)	60-120	HIGH BIAS	Propoxur	148	0.100 (ppm)	60-120	HIGH BIAS
Pyridaben	139	0.100 (ppm)	50-150		Pyrethrins	141	0.400 (ppm)	60-120	HIGH BIAS
Spinosad	145	0.100 (ppm)	50-150		Spiromesifen	118	0.100 (ppm)	60-120	
Spirotetramat	162	0.100 (ppm)	60-120	HIGH BIAS	Spiroxamine	78.7	0.200 (ppm)	60-120	
Tebuconazole	149	0.200 (ppm)	60-120	HIGH BIAS	Thiacloprid	153	0.100 (ppm)	60-120	HIGH BIAS
Thiamethoxam	161	0.100 (ppm)	60-120	HIGH BIAS	Trifloxystrobin	136	0.100 (ppm)	60-120	HIGH BIAS

LCS Dup(P23J042-BSD1)			Extracted: 10/11/23 10:56			Analyzed: 10/12/23 09:38			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Methyl parathion	234	0.100 (ppm)	50-150	HIGH BIAS	Ochratoxin A	165	0.0100 (ppm)	60-120	HIGH BIAS
Aflatoxin G2	180	0.0100 (ppm)	60-120	HIGH BIAS	MGK-264	126	0.100 (ppm)	50-150	
Aflatoxin G1	154	0.0100 (ppm)	60-120	HIGH BIAS	Chlorfenapyr	173	0.400 (ppm)	60-120	HIGH BIAS
Aflatoxin B2	146	0.0100 (ppm)	60-120	HIGH BIAS	Cyfluthrin	127	0.400 (ppm)	50-150	
Aflatoxin B1	163	0.0100 (ppm)	60-120	HIGH BIAS	Cypermethrin	108	0.400 (ppm)	50-150	
Abamectin	157	0.200 (ppm)	50-150	HIGH BIAS	Acephate	156	0.200 (ppm)	60-120	HIGH BIAS
Acequinocyl	214	1.00 (ppm)	40-160	HIGH BIAS	Acetamidrid	150	0.100 (ppm)	60-120	HIGH BIAS
Aldicarb	181	0.200 (ppm)	60-120	HIGH BIAS	Azoxystrobin	166	0.100 (ppm)	60-120	HIGH BIAS
Bifenazate	118	0.100 (ppm)	60-120		Bifenthrin	111	0.100 (ppm)	50-150	
Boscalid	163	0.200 (ppm)	60-120	HIGH BIAS	Carbaryl	145	0.100 (ppm)	60-120	HIGH BIAS
Carbofuran	149	0.100 (ppm)	60-120	HIGH BIAS	Chlorantraniliprole	155	0.100 (ppm)	60-120	HIGH BIAS
Chlorpyrifos	108	0.100 (ppm)	60-120		Clofentezine	157	0.100 (ppm)	60-120	HIGH BIAS
Daminozide	124	0.400 (ppm)	60-120	HIGH BIAS	DDVP (Dichlorvos)	130	0.400 (ppm)	60-120	HIGH BIAS
Diazinon	152	0.100 (ppm)	60-120	HIGH BIAS	Dimethoate	150	0.100 (ppm)	60-120	HIGH BIAS
Ethoprophos	148	0.100 (ppm)	60-120	HIGH BIAS	Etofenprox	168	0.200 (ppm)	50-150	HIGH BIAS
Etoazole	127	0.100 (ppm)	60-120	HIGH BIAS	Fenoxycarb	165	0.100 (ppm)	60-120	HIGH BIAS



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Quality Control

Batch: P23J042 - SOP.T.30.060 Pesticide Prep (Continued)

LCS Dup(P23J042-BSD1)			Extracted: 10/11/23 10:56			Analyzed: 10/12/23 09:38			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Fenpyroximate	134	0.200 (ppm)	60-120	HIGH BIAS	Fipronil	158	0.200 (ppm)	60-120	HIGH BIAS
Flonicamid	135	0.400 (ppm)	60-120	HIGH BIAS	Fludioxonil	142	0.200 (ppm)	50-150	
Hexythiazox	114	0.400 (ppm)	60-120		Imazalil	170	0.100 (ppm)	60-120	HIGH BIAS
Imidacloprid	148	0.200 (ppm)	60-120	HIGH BIAS	Kresoxim-methyl	154	0.200 (ppm)	60-120	HIGH BIAS
Malathion	161	0.100 (ppm)	60-120	HIGH BIAS	Metalaxyl	155	0.100 (ppm)	60-120	HIGH BIAS
Methiocarb	144	0.100 (ppm)	60-120	HIGH BIAS	Methomyl	146	0.200 (ppm)	60-120	HIGH BIAS
Myclobutanil	149	0.100 (ppm)	60-120	HIGH BIAS	Naled	155	0.200 (ppm)	50-150	HIGH BIAS
Oxamyl	156	0.400 (ppm)	60-120	HIGH BIAS	Paclbutrazol	153	0.200 (ppm)	60-120	HIGH BIAS
Permethrins	151	0.100 (ppm)	50-150	HIGH BIAS	Phosmet	158	0.100 (ppm)	50-150	HIGH BIAS
Piperonyl butoxide	112	1.00 (ppm)	60-120		Prallethrin	170	0.100 (ppm)	60-120	HIGH BIAS
Propiconazole	154	0.200 (ppm)	60-120	HIGH BIAS	Propoxur	140	0.100 (ppm)	60-120	HIGH BIAS
Pyridaben	138	0.100 (ppm)	50-150		Pyrethrins	134	0.400 (ppm)	60-120	HIGH BIAS
Spinosad	157	0.100 (ppm)	50-150	HIGH BIAS	Spiromesifen	121	0.100 (ppm)	60-120	HIGH BIAS
Spirotetramat	158	0.100 (ppm)	60-120	HIGH BIAS	Spiroxamine	79.2	0.200 (ppm)	60-120	
Tebuconazole	150	0.200 (ppm)	60-120	HIGH BIAS	Thiacloprid	150	0.100 (ppm)	60-120	HIGH BIAS
Thiamethoxam	158	0.100 (ppm)	60-120	HIGH BIAS	Trifloxystrobin	160	0.100 (ppm)	60-120	HIGH BIAS

Notes and Definitions

Item	Definition
HIGH BIAS	High analyte recovery, yet no detection of that analyte in samples.



Carson Newkirk
Laboratory Manager - 10/12/2023