



PINNACLE — ANALYTICS —

Potency Results

Sample Name: 166-LO-23-A D8
Client: Great Harvest Logistics LLC
Client Batch ID:

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

Sample ID: rC-H-372-E519

Date Sampled: 3/12/2024

Matrix: Flower

Date Reported: 3/20/2024

Prep Analyst: Megan A.

Client License: AG-R1065116-IHH

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

For R&D Purposes Only

Sampling Method: N/A

Reference Method: JCB 2009: HPLC/DAD

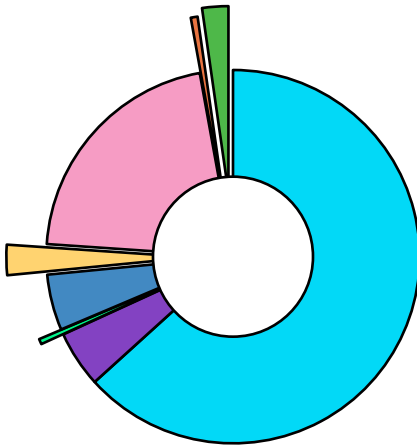
Analysis Batch: 3-14-2024 H3 128, 185, 211, 372, 451 Flower

Total THC (THCA*0.877+d9-THC)	1.17%
Total CBD (CBDA*0.877+CBD)	15.4%
Moisture Content	11.2%
Water Activity	0.402

Cannabinoid	% Weight	mg/g
CBDVA	<LOQ	<LOQ
CBDV	<LOQ	<LOQ
CBDA*	16.1	161.0
CBGA	1.24	12.4
CBG	0.118	1.18
CBD*	1.23	12.3
THCV	<LOQ	<LOQ
CBN	<LOQ	<LOQ
d9-THC*	0.666	6.66
d8-THC*	5.36	53.6
CBC	0.15	1.5
THCA*	0.576	5.76
Total Cannabinoids	25.44	254.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.1%, analyte not measured



CBDA*	CBD*	CBC
CBGA	d9-THC*	THCA*
CBG	d8-THC*	



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Kris Ford, PhD
Lab Director



PINNACLE — ANALYTICS —

Quality Control Results

Analyst: Megan A.

Analysis Batch: 3-14-2024 H3 128, 185, 211, 372, 451 Flower

Pinnacle-Analytics.com
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Medford OR 97504
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	Duplicate RPD		LCS % Recovery		Method Blank	
	H-0-E529-b	Limit	C-FL-031424	Limits	C-FB-031424	Limit
CBDA	<LOQ%	30%	101.0%	90-110%	<LOQ/2	LOQ/2
CBD	<LOQ%	30%	108.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	<LOQ%	30%	93.4%	90-110%	<LOQ/2	LOQ/2
d8-THC	<LOQ%	30%	93.4%	90-110%	<LOQ/2	LOQ/2
THCA	<LOQ%	30%	93.8%	90-110%	<LOQ/2	LOQ/2

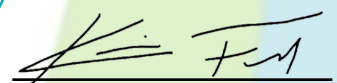
RPD: Relative Percent Difference between unknown sample and its duplicate

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

PRE Laboratories - South
 545 SW 2nd St, #202, Corvallis, OR 97333
 541-257-5002 / OLCC 010-10087092BDA / www.PRElab.com
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Safety Comp - GHLE519, E520

Pinnacle Analytics
010-101599328A3

Sample ID: C240422-04

METRC Batch #:

Matrix: Useable Marijuana

Date Accepted: 03/13/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 03/18/24 11:16

Date/Time Analyzed: 3/19/2024 4:07:19PM

Analysis Method/SOP: LSOP #307

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ	Action Level	Result	Units	Type
Acephate	0.200	0.4	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	0.500	2	< LOQ	ppm	
Acetamiprid	0.100	0.2	< LOQ	ppm	Neonicotinoid insecticide
Aldicarb	0.200	0.4	< LOQ	ppm	Carbamate insecticide
Avermectin B1	0.200	0.5	< LOQ	ppm	
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	0.500	1	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.100	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	0.500	1	< LOQ	ppm	
DDVP (Dichlorvos)	0.500	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
Fonicamid	0.500	1	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.200	0.4	< LOQ	ppm	non-systemic fungicide
Hexythiazox	0.500	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



Carson Newkirk
 Laboratory Manager - 3/20/2024

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Pinnacle Analytics
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Sample ID: C240422-04

METRC Batch #:

Matrix: Useable Marijuana

Date Accepted: 03/13/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 03/18/24 11:16

Date/Time Analyzed: 3/19/2024 4:07:19PM

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-264 (Both)	0.100	0.2	< LOQ	ppm	
Myclobutanil	0.100	0.2	< LOQ	ppm	Azole fungicide
Naled	0.200	0.5	< LOQ	ppm	
Oxamyl	0.500	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.200	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins (Both)	0.100	0.2	< LOQ	ppm	
Phosmet	0.100	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	0.500	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 (All 3)	0.500	1	< LOQ	ppm	
Pyridaben	0.100	0.2	< LOQ	ppm	Unclassified insecticide
Spinosad (Both)	0.100	0.2	< LOQ	ppm	
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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Safety Comp - GHLE519, E520

Pinnacle Analytics

010-101599328A3

Sample ID: C240422-04

METRC Batch #:

Matrix: Useable Marijuana

Date Sampled: NA

Date Accepted: 03/13/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Microbial Analysis

Date/Time Extracted: 03/15/24 10:34

Date/Time Analyzed: 3/18/2024 3:36:11PM

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 - GHLE519, E520

Pinnacle Analytics

010-101599328A3

Sample ID: C240422-04

Matrix: Useable Marijuana

METRC Batch #:

Date Sampled: NA

Date Accepted: 03/13/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Heavy Metals Analysis

Date Extracted: 03/15/24

Date Analyzed: 03/19/24

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	0.0962
Arsenic	0.0800	0.2	0.117

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 - GHL E519, E520

Pinnacle Analytics

010-101599328A3

Sample ID: C240422-04

Matrix: Useable Marijuana

METRC Batch #:

Date Sampled: NA

Date Accepted: 03/13/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Mycotoxins

Date Extracted: 03/18/24

Date Analyzed: 03/18/24

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: C24C101 - LSOP #310 Microbial Analysis

Blank(C24C101-BLK1)			Extracted: 03/15/24 10:34			Analyzed: 03/18/24 15:36			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Absent	0.500 (g)	< LOQ		STEC E. coli	Absent	0.500 (g)	< LOQ	
Salmonella spp.	Absent	0.500 (g)	< LOQ		Salmonella spp.	Absent	0.500 (g)	< LOQ	

Reference(C24C101-SRM1)			Extracted: 03/15/24 10:34			Analyzed: 03/18/24 15:36			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Present	(g)	100-100		STEC E. coli	Present	(g)	100-100	
Salmonella spp.	Present	(g)	100-100		Salmonella spp.	Present	(g)	100-100	

Batch: C24C110 - LSOP #309 Heavy Metal Quantification

Blank(C24C110-BLK1)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 10:01			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Arsenic	< LOQ	0.0800 (ug/g)	< LOQ		Arsenic	< LOQ	0.0800 (ug/g)	< LOQ	
Lead	< LOQ	0.160 (ug/g)	< LOQ		Lead	< LOQ	0.160 (ug/g)	< LOQ	
Mercury	< LOQ	0.0400 (ug/g)	< LOQ		Mercury	< LOQ	0.0400 (ug/g)	< LOQ	
Cadmium	< LOQ	0.0800 (ug/g)	< LOQ		Cadmium	< LOQ	0.0800 (ug/g)	< LOQ	

Blank(C24C110-BLK2)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 10:10			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Arsenic	< LOQ	0.0800 (ug/g)	< LOQ		Arsenic	< LOQ	0.0800 (ug/g)	< LOQ	
Lead	< LOQ	0.160 (ug/g)	< LOQ		Lead	< LOQ	0.160 (ug/g)	< LOQ	
Mercury	< LOQ	0.0400 (ug/g)	< LOQ		Mercury	< LOQ	0.0400 (ug/g)	< LOQ	
Cadmium	< LOQ	0.0800 (ug/g)	< LOQ		Cadmium	< LOQ	0.0800 (ug/g)	< LOQ	

LCS(C24C110-BS1)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 10:05			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	102	0.0800 (ug/g)	80-115		Arsenic	102	0.0800 (ug/g)	80-115	
Lead	103	0.160 (ug/g)	80-115		Lead	103	0.160 (ug/g)	80-115	
Mercury	97.7	0.0400 (ug/g)	80-115		Mercury	97.7	0.0400 (ug/g)	80-115	
Cadmium	98.6	0.0800 (ug/g)	80-115		Cadmium	98.6	0.0800 (ug/g)	80-115	

LCS(C24C110-BS2)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 10:14			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	97.4	0.0800 (ug/g)	80-115		Arsenic	97.4	0.0800 (ug/g)	80-115	
Lead	95.8	0.160 (ug/g)	80-115		Lead	95.8	0.160 (ug/g)	80-115	
Mercury	99.8	0.0400 (ug/g)	80-115		Mercury	99.8	0.0400 (ug/g)	80-115	
Cadmium	96.2	0.0800 (ug/g)	80-115		Cadmium	96.2	0.0800 (ug/g)	80-115	



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Laboratory Manager - 3/20/2024

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Quality Control

Batch: C24C110 - LSOP #309 Heavy Metal Quantification (Continued)

LCS Dup(C24C110-BSD1)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 11:48			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	97.7	0.0800 (ug/g)	80-115		Arsenic	97.7	0.0800 (ug/g)	80-115	
Lead	99.9	0.160 (ug/g)	80-115		Lead	99.9	0.160 (ug/g)	80-115	
Mercury	98.8	0.0400 (ug/g)	80-115		Mercury	98.8	0.0400 (ug/g)	80-115	
Cadmium	95.0	0.0800 (ug/g)	80-115		Cadmium	95.0	0.0800 (ug/g)	80-115	

LCS Dup(C24C110-BSD2)			Extracted: 03/15/24 15:12			Analyzed: 03/19/24 11:53			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	97.6	0.0800 (ug/g)	80-115		Arsenic	97.6	0.0800 (ug/g)	80-115	
Lead	94.8	0.160 (ug/g)	80-115		Lead	94.8	0.160 (ug/g)	80-115	
Mercury	102	0.0400 (ug/g)	80-115		Mercury	102	0.0400 (ug/g)	80-115	
Cadmium	94.7	0.0800 (ug/g)	80-115		Cadmium	94.7	0.0800 (ug/g)	80-115	

Batch: C24C118 - LSOP #308 Mycotoxin Quantification by LCMS

Blank(C24C118-BLK1)			Extracted: 03/18/24 11:09			Analyzed: 03/18/24 17:59			
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ		Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ	
Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ	

LCS(C24C118-BS1)			Extracted: 03/18/24 11:09			Analyzed: 03/18/24 18:06			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	82.7	(ppm)	60-120		Ochratoxin A	82.7	(ppm)	60-120	
Aflatoxin G2	89.6	(ppm)	60-120		Aflatoxin G2	89.6	(ppm)	60-120	
Aflatoxin G1	95.7	(ppm)	60-120		Aflatoxin G1	95.7	(ppm)	60-120	
Aflatoxin B2	86.4	(ppm)	60-120		Aflatoxin B2	86.4	(ppm)	60-120	
Aflatoxin B1	93.0	(ppm)	60-120		Aflatoxin B1	93.0	(ppm)	60-120	

LCS Dup(C24C118-BSD1)			Extracted: 03/18/24 11:09			Analyzed: 03/18/24 19:32			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	91.2	(ppm)	60-120		Ochratoxin A	91.2	(ppm)	60-120	
Aflatoxin G2	94.5	(ppm)	60-120		Aflatoxin G2	94.5	(ppm)	60-120	
Aflatoxin G1	98.7	(ppm)	60-120		Aflatoxin G1	98.7	(ppm)	60-120	
Aflatoxin B2	90.0	(ppm)	60-120		Aflatoxin B2	90.0	(ppm)	60-120	
Aflatoxin B1	92.8	(ppm)	60-120		Aflatoxin B1	92.8	(ppm)	60-120	

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS



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Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

Blank(C24C120-BLK1)			Extracted: 03/18/24 11:16		Analyzed: 03/19/24 11:12				
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Acephate	< LOQ	0.200 (ppm)	< LOQ		Acephate	< LOQ	0.200 (ppm)	< LOQ	
Acequinocyl	< LOQ	0.500 (ppm)	< LOQ		Acequinocyl	< LOQ	0.500 (ppm)	< LOQ	
Acetamiprid	< LOQ	0.100 (ppm)	< LOQ		Acetamiprid	< LOQ	0.100 (ppm)	< LOQ	
Aldicarb	< LOQ	0.200 (ppm)	< LOQ		Aldicarb	< LOQ	0.200 (ppm)	< LOQ	
Avermectin B1	< LOQ	0.200 (ppm)	< LOQ		Avermectin B1	< LOQ	0.200 (ppm)	< LOQ	
Azoxystrobin	< LOQ	0.100 (ppm)	< LOQ		Azoxystrobin	< LOQ	0.100 (ppm)	< LOQ	
Bifenazate	< LOQ	0.100 (ppm)	< LOQ		Bifenazate	< LOQ	0.100 (ppm)	< LOQ	
Bifenthrin	< LOQ	0.100 (ppm)	< LOQ		Bifenthrin	< LOQ	0.100 (ppm)	< LOQ	
Boscalid	< LOQ	0.200 (ppm)	< LOQ		Boscalid	< LOQ	0.200 (ppm)	< LOQ	
Carbaryl	< LOQ	0.100 (ppm)	< LOQ		Carbaryl	< LOQ	0.100 (ppm)	< LOQ	
Carbofuran	< LOQ	0.100 (ppm)	< LOQ		Carbofuran	< LOQ	0.100 (ppm)	< LOQ	
Chlorantraniliprole	< LOQ	0.100 (ppm)	< LOQ		Chlorantraniliprole	< LOQ	0.100 (ppm)	< LOQ	
Chlorfenapyr	< LOQ	0.500 (ppm)	< LOQ		Chlorfenapyr	< LOQ	0.500 (ppm)	< LOQ	
Chlorpyrifos	< LOQ	0.100 (ppm)	< LOQ		Chlorpyrifos	< LOQ	0.100 (ppm)	< LOQ	
Clofentezine	< LOQ	0.100 (ppm)	< LOQ		Clofentezine	< LOQ	0.100 (ppm)	< LOQ	
Cyfluthrin	< LOQ	0.500 (ppm)	< LOQ		Cyfluthrin	< LOQ	0.500 (ppm)	< LOQ	
Cypermethrin	< LOQ	0.500 (ppm)	< LOQ		Cypermethrin	< LOQ	0.500 (ppm)	< LOQ	
Daminozide	< LOQ	0.500 (ppm)	< LOQ		Daminozide	< LOQ	0.500 (ppm)	< LOQ	
DDVP (Dichlorvos)	< LOQ	0.500 (ppm)	< LOQ		DDVP (Dichlorvos)	< LOQ	0.500 (ppm)	< LOQ	
Diazinon	< LOQ	0.100 (ppm)	< LOQ		Diazinon	< LOQ	0.100 (ppm)	< LOQ	
Dimethoate	< LOQ	0.100 (ppm)	< LOQ		Dimethoate	< LOQ	0.100 (ppm)	< LOQ	
Ethoprophos	< LOQ	0.100 (ppm)	< LOQ		Ethoprophos	< LOQ	0.100 (ppm)	< LOQ	
Etofenprox	< LOQ	0.200 (ppm)	< LOQ		Etofenprox	< LOQ	0.200 (ppm)	< LOQ	
Etoxazole	< LOQ	0.100 (ppm)	< LOQ		Etoxazole	< LOQ	0.100 (ppm)	< LOQ	
Fenoxycarb	< LOQ	0.100 (ppm)	< LOQ		Fenoxycarb	< LOQ	0.100 (ppm)	< LOQ	
Fenpyroximate	< LOQ	0.200 (ppm)	< LOQ		Fenpyroximate	< LOQ	0.200 (ppm)	< LOQ	
Fipronil	< LOQ	0.200 (ppm)	< LOQ		Fipronil	< LOQ	0.200 (ppm)	< LOQ	
Flonicamid	< LOQ	0.500 (ppm)	< LOQ		Flonicamid	< LOQ	0.500 (ppm)	< LOQ	
Fludioxonil	< LOQ	0.200 (ppm)	< LOQ		Fludioxonil	< LOQ	0.200 (ppm)	< LOQ	
Hexythiazox	< LOQ	0.500 (ppm)	< LOQ		Hexythiazox	< LOQ	0.500 (ppm)	< LOQ	
Imazalil	< LOQ	0.100 (ppm)	< LOQ		Imazalil	< LOQ	0.100 (ppm)	< LOQ	
Imidacloprid	< LOQ	0.200 (ppm)	< LOQ		Imidacloprid	< LOQ	0.200 (ppm)	< LOQ	
Kresoxim-methyl	< LOQ	0.200 (ppm)	< LOQ		Kresoxim-methyl	< LOQ	0.200 (ppm)	< LOQ	
Malathion	< LOQ	0.100 (ppm)	< LOQ		Malathion	< LOQ	0.100 (ppm)	< LOQ	
Metalaxyl	< LOQ	0.100 (ppm)	< LOQ		Metalaxyl	< LOQ	0.100 (ppm)	< LOQ	
Methiocarb	< LOQ	0.100 (ppm)	< LOQ		Methiocarb	< LOQ	0.100 (ppm)	< LOQ	
Methomyl	< LOQ	0.200 (ppm)	< LOQ		Methomyl	< LOQ	0.200 (ppm)	< LOQ	



Carson Newkirk
 Laboratory Manager - 3/20/2024

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

Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

Blank(C24C120-BLK1)			Extracted: 03/18/24 11:16		Analyzed: 03/19/24 11:12				
Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Methyl parathion	< LOQ	0.100 (ppm)	< LOQ		Methyl parathion	< LOQ	0.100 (ppm)	< LOQ	
MGK-264 (Both)	< LOQ	0.100 (ppm)	< LOQ		MGK-264 (Both)	< LOQ	0.100 (ppm)	< LOQ	
Myclobutanil	< LOQ	0.100 (ppm)	< LOQ		Myclobutanil	< LOQ	0.100 (ppm)	< LOQ	
Naled	< LOQ	0.200 (ppm)	< LOQ		Naled	< LOQ	0.200 (ppm)	< LOQ	
Oxamyl	< LOQ	0.500 (ppm)	< LOQ		Oxamyl	< LOQ	0.500 (ppm)	< LOQ	
Paclobutrazol	< LOQ	0.200 (ppm)	< LOQ		Paclobutrazol	< LOQ	0.200 (ppm)	< LOQ	
Permethrins (Both)	< LOQ	0.100 (ppm)	< LOQ		Permethrins (Both)	< LOQ	0.100 (ppm)	< LOQ	
Phosmet	< LOQ	0.100 (ppm)	< LOQ		Phosmet	< LOQ	0.100 (ppm)	< LOQ	
Piperonyl butoxide	< LOQ	0.500 (ppm)	< LOQ		Piperonyl butoxide	< LOQ	0.500 (ppm)	< LOQ	
Prallethrin	< LOQ	0.100 (ppm)	< LOQ		Prallethrin	< LOQ	0.100 (ppm)	< LOQ	
Propiconazole	< LOQ	0.200 (ppm)	< LOQ		Propiconazole	< LOQ	0.200 (ppm)	< LOQ	
Propoxur	< LOQ	0.100 (ppm)	< LOQ		Propoxur	< LOQ	0.100 (ppm)	< LOQ	
Pyrethrins (All 3)	< LOQ	0.500 (ppm)	< LOQ		Pyrethrins (All 3)	< LOQ	0.500 (ppm)	< LOQ	
Pyridaben	< LOQ	0.100 (ppm)	< LOQ		Pyridaben	< LOQ	0.100 (ppm)	< LOQ	
Spinosad (Both)	< LOQ	0.100 (ppm)	< LOQ		Spinosad (Both)	< LOQ	0.100 (ppm)	< LOQ	
Spiromesifen	< LOQ	0.100 (ppm)	< LOQ		Spiromesifen	< LOQ	0.100 (ppm)	< LOQ	
Spirotetramat	< LOQ	0.100 (ppm)	< LOQ		Spirotetramat	< LOQ	0.100 (ppm)	< LOQ	
Spiroxamine	< LOQ	0.200 (ppm)	< LOQ		Spiroxamine	< LOQ	0.200 (ppm)	< LOQ	
Tebuconazole	< LOQ	0.200 (ppm)	< LOQ		Tebuconazole	< LOQ	0.200 (ppm)	< LOQ	
Thiacloprid	< LOQ	0.100 (ppm)	< LOQ		Thiacloprid	< LOQ	0.100 (ppm)	< LOQ	
Thiamethoxam	< LOQ	0.100 (ppm)	< LOQ		Thiamethoxam	< LOQ	0.100 (ppm)	< LOQ	
Trifloxystrobin	< LOQ	0.100 (ppm)	< LOQ		Trifloxystrobin	< LOQ	0.100 (ppm)	< LOQ	

LCS(C24C120-BS1)			Extracted: 03/18/24 11:16		Analyzed: 03/19/24 11:26				
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	97.7	(ppm)	60-120		Acephate	97.7	(ppm)	60-120	
Acequinocyl	94.7	(ppm)	40-160		Acequinocyl	94.7	(ppm)	40-160	
Acetamiprid	93.7	(ppm)	60-120		Acetamiprid	93.7	(ppm)	60-120	
Aldicarb	100	(ppm)	60-120		Aldicarb	100	(ppm)	60-120	
Avermectin B1	82.9	(ppm)	50-150		Avermectin B1	82.9	(ppm)	50-150	
Azoxystrobin	96.8	(ppm)	60-120		Azoxystrobin	96.8	(ppm)	60-120	
Bifenazate	90.7	(ppm)	60-120		Bifenazate	90.7	(ppm)	60-120	
Bifenthrin	117	(ppm)	50-150		Bifenthrin	117	(ppm)	50-150	
Boscalid	92.5	(ppm)	60-120		Boscalid	92.5	(ppm)	60-120	
Carbaryl	109	(ppm)	60-120		Carbaryl	109	(ppm)	60-120	
Carbofuran	105	(ppm)	60-120		Carbofuran	105	(ppm)	60-120	
Chlorantraniliprole	100	(ppm)	60-120		Chlorantraniliprole	100	(ppm)	60-120	



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Laboratory Manager - 3/20/2024

PREE Laboratories - South
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Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS(C24C120-BS1)			Extracted: 03/18/24 11:16			Analyzed: 03/19/24 11:26			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Chlorfenapyr	91.7	(ppm)	60-120		Chlorfenapyr	91.7	(ppm)	60-120	
Chlorpyrifos	79.9	(ppm)	60-120		Chlorpyrifos	79.9	(ppm)	60-120	
Clofentezine	94.5	(ppm)	60-120		Clofentezine	94.5	(ppm)	60-120	
Cyfluthrin	101	(ppm)	50-150		Cyfluthrin	101	(ppm)	50-150	
Cypermethrin	98.3	(ppm)	50-150		Cypermethrin	98.3	(ppm)	50-150	
Daminozide	101	(ppm)	60-120		Daminozide	101	(ppm)	60-120	
DDVP (Dichlorvos)	96.5	(ppm)	60-120		DDVP (Dichlorvos)	96.5	(ppm)	60-120	
Diazinon	91.8	(ppm)	60-120		Diazinon	91.8	(ppm)	60-120	
Dimethoate	98.0	(ppm)	60-120		Dimethoate	98.0	(ppm)	60-120	
Ethoprophos	91.8	(ppm)	60-120		Ethoprophos	91.8	(ppm)	60-120	
Etofenprox	101	(ppm)	50-150		Etofenprox	101	(ppm)	50-150	
Etoxazole	89.3	(ppm)	60-120		Etoxazole	89.3	(ppm)	60-120	
Fenoxycarb	93.2	(ppm)	60-120		Fenoxycarb	93.2	(ppm)	60-120	
Fenpyroximate	92.8	(ppm)	60-120		Fenpyroximate	92.8	(ppm)	60-120	
Fipronil	75.5	(ppm)	60-120		Fipronil	75.5	(ppm)	60-120	
Flonicamid	102	(ppm)	60-120		Flonicamid	102	(ppm)	60-120	
Fludioxonil	92.7	(ppm)	50-150		Fludioxonil	92.7	(ppm)	50-150	
Hexythiazox	88.4	(ppm)	60-120		Hexythiazox	88.4	(ppm)	60-120	
Imazalil	100	(ppm)	60-120		Imazalil	100	(ppm)	60-120	
Imidacloprid	98.8	(ppm)	60-120		Imidacloprid	98.8	(ppm)	60-120	
Kresoxim-methyl	92.8	(ppm)	60-120		Kresoxim-methyl	92.8	(ppm)	60-120	
Malathion	92.8	(ppm)	60-120		Malathion	92.8	(ppm)	60-120	
Metalaxyl	93.5	(ppm)	60-120		Metalaxyl	93.5	(ppm)	60-120	
Methiocarb	99.7	(ppm)	60-120		Methiocarb	99.7	(ppm)	60-120	
Methomyl	98.7	(ppm)	60-120		Methomyl	98.7	(ppm)	60-120	
Methyl parathion	117	(ppm)	50-150		Methyl parathion	117	(ppm)	50-150	
MGK I	105	(ppm)	50-150		MGK I	105	(ppm)	50-150	
MGK II	104	(ppm)	50-150		MGK II	104	(ppm)	50-150	
Myclobutanil	103	(ppm)	60-120		Myclobutanil	103	(ppm)	60-120	
Naled	94.7	(ppm)	50-150		Naled	94.7	(ppm)	50-150	
Oxamyl	104	(ppm)	60-120		Oxamyl	104	(ppm)	60-120	
Paclobutrazol	97.0	(ppm)	60-120		Paclobutrazol	97.0	(ppm)	60-120	
Permethrins Cis	89.4	(ppm)	50-150		Permethrins Cis	89.4	(ppm)	50-150	
Permethrins Trans	104	(ppm)	50-150		Permethrins Trans	104	(ppm)	50-150	
Phosmet	95.0	(ppm)	50-150		Phosmet	95.0	(ppm)	50-150	
Piperonyl butoxide	91.7	(ppm)	60-120		Piperonyl butoxide	91.7	(ppm)	60-120	
Prallethrin	99.0	(ppm)	60-120		Prallethrin	99.0	(ppm)	60-120	



Carson Newkirk
Laboratory Manager - 3/20/2024

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

Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS(C24C120-BS1)			Extracted: 03/18/24 11:16			Analyzed: 03/19/24 11:26			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Propiconazole	100	(ppm)	60-120		Propiconazole	100	(ppm)	60-120	
Propoxur	106	(ppm)	60-120		Propoxur	106	(ppm)	60-120	
Pyrethrins Cinerin	86.6	(ppm)	60-120		Pyrethrins Cinerin	86.6	(ppm)	60-120	
Pyrethrins Jasmolin	106	(ppm)	60-120		Pyrethrins Jasmolin	106	(ppm)	60-120	
Pyrethrins Pyrethrin	90.5	(ppm)	60-120		Pyrethrins Pyrethrin	90.5	(ppm)	60-120	
Pyridaben	86.4	(ppm)	50-150		Pyridaben	86.4	(ppm)	50-150	
Spinosyn A	84.0	(ppm)	50-150		Spinosyn A	84.0	(ppm)	50-150	
Spinosyn D	92.0	(ppm)	50-150		Spinosyn D	92.0	(ppm)	50-150	
Spiromesifen	112	(ppm)	60-120		Spiromesifen	112	(ppm)	60-120	
Spirotetramat	92.8	(ppm)	60-120		Spirotetramat	92.8	(ppm)	60-120	
Spiroxamine	93.5	(ppm)	60-120		Spiroxamine	93.5	(ppm)	60-120	
Tebuconazole	96.7	(ppm)	60-120		Tebuconazole	96.7	(ppm)	60-120	
Thiacloprid	92.5	(ppm)	60-120		Thiacloprid	92.5	(ppm)	60-120	
Thiamethoxam	93.4	(ppm)	60-120		Thiamethoxam	93.4	(ppm)	60-120	
Trifloxystrobin	92.7	(ppm)	60-120		Trifloxystrobin	92.7	(ppm)	60-120	

LCS Dup(C24C120-BS1)			Extracted: 03/18/24 11:16			Analyzed: 03/19/24 17:07			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	105	(ppm)	60-120		Acephate	105	(ppm)	60-120	
Acequinocyl	103	(ppm)	40-160		Acequinocyl	103	(ppm)	40-160	
Acetamiprid	105	(ppm)	60-120		Acetamiprid	105	(ppm)	60-120	
Aldicarb	113	(ppm)	60-120		Aldicarb	113	(ppm)	60-120	
Avermectin B1	88.8	(ppm)	50-150		Avermectin B1	88.8	(ppm)	50-150	
Azoxystrobin	110	(ppm)	60-120		Azoxystrobin	110	(ppm)	60-120	
Bifenazate	102	(ppm)	60-120		Bifenazate	102	(ppm)	60-120	
Bifenthrin	130	(ppm)	50-150		Bifenthrin	130	(ppm)	50-150	
Boscalid	104	(ppm)	60-120		Boscalid	104	(ppm)	60-120	
Carbaryl	126	(ppm)	60-120	BSDRPD	Carbaryl	126	(ppm)	60-120	BSDRPD
Carbofuran	116	(ppm)	60-120		Carbofuran	116	(ppm)	60-120	
Chlorantraniliprole	116	(ppm)	60-120		Chlorantraniliprole	116	(ppm)	60-120	
Chlorfenapyr	117	(ppm)	60-120		Chlorfenapyr	117	(ppm)	60-120	
Chlorpyrifos	89.8	(ppm)	60-120		Chlorpyrifos	89.8	(ppm)	60-120	
Clofentezine	106	(ppm)	60-120		Clofentezine	106	(ppm)	60-120	
Cyfluthrin	121	(ppm)	50-150		Cyfluthrin	121	(ppm)	50-150	
Cypermethrin	115	(ppm)	50-150		Cypermethrin	115	(ppm)	50-150	
Daminozide	124	(ppm)	60-120	BSDRPD	Daminozide	124	(ppm)	60-120	BSDRPD
DDVP (Dichlorvos)	108	(ppm)	60-120		DDVP (Dichlorvos)	108	(ppm)	60-120	



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Laboratory Manager - 3/20/2024

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

Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS Dup(C24C120-BSD1)			Extracted: 03/18/24 11:16			Analyzed: 03/19/24 17:07			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Diazinon	105	(ppm)	60-120		Diazinon	105	(ppm)	60-120	
Dimethoate	108	(ppm)	60-120		Dimethoate	108	(ppm)	60-120	
Ethoprophos	102	(ppm)	60-120		Ethoprophos	102	(ppm)	60-120	
Etofenprox	117	(ppm)	50-150		Etofenprox	117	(ppm)	50-150	
Etoxazole	103	(ppm)	60-120		Etoxazole	103	(ppm)	60-120	
Fenoxycarb	108	(ppm)	60-120		Fenoxycarb	108	(ppm)	60-120	
Fenpyroximate	108	(ppm)	60-120		Fenpyroximate	108	(ppm)	60-120	
Fipronil	93.4	(ppm)	60-120		Fipronil	93.4	(ppm)	60-120	
Flonicamid	118	(ppm)	60-120		Flonicamid	118	(ppm)	60-120	
Fludioxonil	98.7	(ppm)	50-150		Fludioxonil	98.7	(ppm)	50-150	
Hexythiazox	99.3	(ppm)	60-120		Hexythiazox	99.3	(ppm)	60-120	
Imazalil	113	(ppm)	60-120		Imazalil	113	(ppm)	60-120	
Imidacloprid	110	(ppm)	60-120		Imidacloprid	110	(ppm)	60-120	
Kresoxim-methyl	107	(ppm)	60-120		Kresoxim-methyl	107	(ppm)	60-120	
Malathion	106	(ppm)	60-120		Malathion	106	(ppm)	60-120	
Metalaxyl	103	(ppm)	60-120		Metalaxyl	103	(ppm)	60-120	
Methiocarb	111	(ppm)	60-120		Methiocarb	111	(ppm)	60-120	
Methomyl	111	(ppm)	60-120		Methomyl	111	(ppm)	60-120	
Methyl parathion	153	(ppm)	50-150	BSDRPD	Methyl parathion	153	(ppm)	50-150	BSDRPD
MGK I	112	(ppm)	50-150		MGK I	112	(ppm)	50-150	
MGK II	107	(ppm)	50-150		MGK II	107	(ppm)	50-150	
Myclobutanil	119	(ppm)	60-120		Myclobutanil	119	(ppm)	60-120	
Naled	111	(ppm)	50-150		Naled	111	(ppm)	50-150	
Oxamyl	118	(ppm)	60-120		Oxamyl	118	(ppm)	60-120	
Paclobutrazol	113	(ppm)	60-120		Paclobutrazol	113	(ppm)	60-120	
Permethrins Cis	104	(ppm)	50-150		Permethrins Cis	104	(ppm)	50-150	
Permethrins Trans	114	(ppm)	50-150		Permethrins Trans	114	(ppm)	50-150	
Phosmet	108	(ppm)	50-150		Phosmet	108	(ppm)	50-150	
Piperonyl butoxide	106	(ppm)	60-120		Piperonyl butoxide	106	(ppm)	60-120	
Prallethrin	114	(ppm)	60-120		Prallethrin	114	(ppm)	60-120	
Propiconazole	114	(ppm)	60-120		Propiconazole	114	(ppm)	60-120	
Propoxur	118	(ppm)	60-120		Propoxur	118	(ppm)	60-120	
Pyrethrins Cinerin	110	(ppm)	60-120		Pyrethrins Cinerin	110	(ppm)	60-120	
Pyrethrins Jasmolin	122	(ppm)	60-120	BSDRPD	Pyrethrins Jasmolin	122	(ppm)	60-120	BSDRPD
Pyrethrins Pyrethrin	100	(ppm)	60-120		Pyrethrins Pyrethrin	100	(ppm)	60-120	
Pyridaben	102	(ppm)	50-150		Pyridaben	102	(ppm)	50-150	
Spinosyn A	96.0	(ppm)	50-150		Spinosyn A	96.0	(ppm)	50-150	



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Laboratory Manager - 3/20/2024

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

Quality Control

Batch: C24C120 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS Dup(C24C120-BSD1)			Extracted: 03/18/24 11:16			Analyzed: 03/19/24 17:07			
Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Spinosyn D	108	(ppm)	50-150		Spinosyn D	108	(ppm)	50-150	
Spiromesifen	132	(ppm)	60-120	BSDRPD	Spiromesifen	132	(ppm)	60-120	BSDRPD
Spirotetramat	105	(ppm)	60-120		Spirotetramat	105	(ppm)	60-120	
Spiroxamine	109	(ppm)	60-120		Spiroxamine	109	(ppm)	60-120	
Tebuconazole	112	(ppm)	60-120		Tebuconazole	112	(ppm)	60-120	
Thiacloprid	102	(ppm)	60-120		Thiacloprid	102	(ppm)	60-120	
Thiamethoxam	103	(ppm)	60-120		Thiamethoxam	103	(ppm)	60-120	
Trifloxystrobin	106	(ppm)	60-120		Trifloxystrobin	106	(ppm)	60-120	

Notes and Definitions

Item	Definition
BSDRPD	Duplicate recovery not applicable as sample only assessed for RPD <20%



Carson Newkirk
Laboratory Manager - 3/20/2024