PINNACLE ANALYTICS

Potency Results

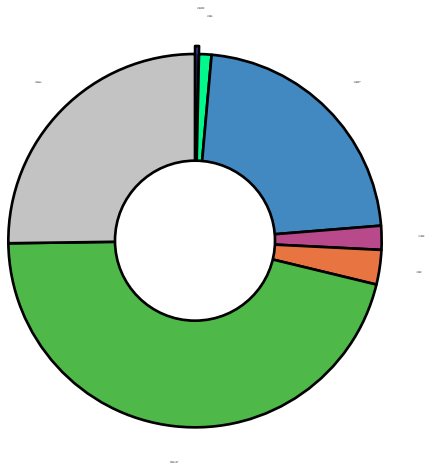
Sample Name: *Northern Lights*
Client: VIIA Hemp
Client Batch ID:

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

Sample ID: rC-HS-128-E1913
Matrix: Concentrate
Prep Analyst: Megan A.
Analysis Method: 0668534+1 H4 5-24-2024 #1.lcm
Sampling Method: N/A
Reference Method: JCB 2009: HPLC/DAD
Analysis Batch: 9-12-2024 H4 128, 276, 302 Solids

Date Sampled: 9/11/2024
Date Reported: 9/16/2024
Client License: N/A
For R&D Purposes Only

Total THC (THCA*0.877+d9-THC)	43.3%
Total CBD (CBDA*0.877+CBD)	22.3%
Moisture Content	N/A



Cannabinoid	% Weight	mg/g
CBDVA	<LOQ	<LOQ
CBDV	0.339	3.39
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	1.08	10.8
CBD*	22.3	223.0
THCV	<LOQ	<LOQ
CBN	2.07	20.7
d9-THC*	<LOQ	<LOQ
d8-THC*	<LOQ	<LOQ
CBC	2.99	29.9
THCA*	49.0	490.0
Total Cannabinoids	77.78	778.0

*ORELAP Accredited Analyte
Limit Of Quantitation: 0.2%, analyte not measured

CBDV CBN Other
CBG CBC
CBD* THCA*

Kris Ford, PhD
Lab Director

Microbiology Results

Sample Name: *Safety Comp- E1912-1921*
Client: VIIA Hemp
Client Batch ID: N/A

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

Sample ID: rB-HS-128-E1912-1921
Matrix: Solids
Prep Analyst: Megan A.
Sampling Method: N/A
Reference Method: AOAC MG Salmonella & STEC Multiplex Assay
Analysis Method: Microbiological Contaminants Detection in Cannabis SOP Rev 2
Analysis Batch: 10-19-2024 q2 128, 535, 539 B

Date Received: 10-7-2024
Date Reported: 10-21-2024
Client License: N/A
450 S 3rd St
Jacksonville OR 97530
For R&D Purposes Only

Name	Lab ID	STEC	Salmonella
Safety Comp- E1912-1921	rB-HS-128-E1912-1921	Pass	Pass

Quality Controls

Name	Lab ID	STEC	Salmonella
Negative Control	B-IB-101924	Absent	Absent
Positive Control	B-BL-101924	Present	Present
Method Blank	B-FB-101924	Absent	Absent

There were no divergences from ordinary Quality Control procedures or SOPs.
Limit of Detection: 1 CFU

Kris Ford, PhD
Lab Director

Certificate of Analysis

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

FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES

Safety Comp- E1912-1921

Pinnacle Analytics
010-101599328A3
Sample ID: C241668-01 **METRC Batch #:**
Matrix: Extract/Concentrate

Date Sampled: 10/07/24 09:00
Date Accepted: 10/07/24
Batch ID:
Batch Size:
Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 10/10/24 09:15
Analysis Method/SOP: LSOP #307

Date/Time Analyzed: 10/10/2024 1:59:00PM
Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ	Action Level	Result	Units	Type
Acephate	0.020	0.4	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	0.100	2	< LOQ	ppm	
Acetamiprid	0.020	0.2	< LOQ	ppm	Neonicotinoid instecticide
Aldicarb	0.020	0.4	< LOQ	ppm	Carbamate insecticide
Avermectin B1	0.100	0.5	< LOQ	ppm	
Azoxystrobin	0.020	0.2	< LOQ	ppm	
Bifenazate	0.020	0.2	< LOQ	ppm	Unclassified insecticide
Bifenthrin	0.100	0.2	< LOQ	ppm	
Boscalid	0.020	0.4	< LOQ	ppm	Anilide fungicide
Carbaryl	0.020	0.2	< LOQ	ppm	Carbamate insecticide
Carbofuran	0.020	0.2	< LOQ	ppm	Carbamate insecticide
Chlorantraniliprole	0.020	0.2	< LOQ	ppm	Anthranilic diamide insecticide
Chlorfenapyr	0.500	1	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.020	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	0.020	0.2	< LOQ	ppm	Organophosphate insecticide
Dimethoate	0.020	0.2	< LOQ	ppm	
Ethoprophos	0.020	0.2	< LOQ	ppm	
Etofenprox	0.100	0.4	< LOQ	ppm	
Etoxazole	0.020	0.2	< LOQ	ppm	Unclassified miticide
Fenoxycarb	0.020	0.2	< LOQ	ppm	
Fenpyroximate	0.100	0.4	< LOQ	ppm	
Fipronil	0.020	0.4	< LOQ	ppm	Pyrazole insecticide
Flonicamid	0.020	1	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.100	0.4	< LOQ	ppm	non-systemic fungicide
Hexythiazox	0.020	1	< LOQ	ppm	
Imazalil	0.020	0.2	< LOQ	ppm	Azole fungicide
Imidacloprid	0.020	0.4	< LOQ	ppm	Neonicotinoid insectide
Kresoxim-methyl	0.100	0.4	< LOQ	ppm	
Malathion	0.020	0.2	< LOQ	ppm	
Metalaxyl	0.020	0.2	< LOQ	ppm	
Methiocarb	0.020	0.2	< LOQ	ppm	Carbamate insecticide
Methomyl	0.020	0.4	< LOQ	ppm	Carbamate insecticide

Carson Newkirk
Laboratory Manager - 10/14/2024

Certificate of Analysis

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Safety Comp- E1912-1921

Pinnacle Analytics
010-101599328A3
Sample ID: C241668-01 **METRC Batch #:**
Matrix: Extract/Concentrate

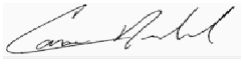
Date Sampled: 10/07/24 09:00
Date Accepted: 10/07/24
Batch ID:
Batch Size:
Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 10/10/24 09:15
Analysis Method/SOP: LSOP #307
Date/Time Analyzed: 10/10/2024 1:59:00PM
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	0.020	0.5	< LOQ	ppm	
Oxamyl	0.020	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.020	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins (Both)	0.100	0.2	< LOQ	ppm	
Phosmet	0.020	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	0.020	2	< LOQ	ppm	
Prallethrin	0.100	0.2	< LOQ	ppm	
Propiconazole	0.100	0.4	< LOQ	ppm	
Propoxur	0.020	0.2	< LOQ	ppm	Carbamate insecticide
Pyrethrins (All 3)	0.500	1	< LOQ	ppm	
Pyridaben	0.020	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	0.020	0.2	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.020	0.4	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.020	0.4	< LOQ	ppm	
Thiacloprid	0.020	0.2	< LOQ	ppm	
Thiamethoxam	0.020	0.2	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.020	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.



Carson Newkirk
Laboratory Manager - 10/14/2024

Certificate of Analysis

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

FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES

Safety Comp- E1912-1921

Pinnacle Analytics

010-101599328A3

Sample ID: C241668-01 **METRC Batch #:**

Matrix: Extract/Concentrate

Date Sampled: 10/07/24 09:00

Date Accepted: 10/07/24

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Residual Solvents

Analyte	LOQ	Action Level		Result	Units
Butanes	500	5000	3	< LOQ	ppm
n-Butane	500	5000		< LOQ	ppm
iso-Butane	500	5000		< LOQ	ppm
Hexanes	87	290	4	< LOQ	ppm
n-Hexane	87	290		< LOQ	ppm
2-Methylpentane	87	290		< LOQ	ppm
3-Methylpentane	87	290		< LOQ	ppm
2,2-Dimethylbutane	87	290		< LOQ	ppm
2,3-Dimethylbutane	87	290		< LOQ	ppm
Pentanes	700	5000	5	< LOQ	ppm
n-Pentane	700	5000		< LOQ	ppm
iso-Pentane	700	5000		< LOQ	ppm
Neopentane	125	5000		< LOQ	ppm
Xylenes	1302	2170		< LOQ	ppm
Xylenes MP	1302	2170		< LOQ	ppm
Xylene - O	651	2170		< LOQ	ppm
2-Propanol (IPA)	1400	5000		< LOQ	ppm
Ethyl benzene	651	5000		< LOQ	ppm
Acetone	1400	5000		< LOQ	ppm
Acetonitrile	123	410		< LOQ	ppm
Benzene	0.6	2		< LOQ	ppm
Methanol	1000	3000		< LOQ	ppm
Propane	200	5000		< LOQ	ppm
Toluene	267	890		< LOQ	ppm
Dichloromethane	180	600		< LOQ	ppm
1,4-Dioxane	114	380		< LOQ	ppm
2-Butanol	1400	5000		< LOQ	ppm
2-Ethoxyethanol	48	160		< LOQ	ppm
Cumene	21	70		< LOQ	ppm
Cyclohexane	1139	3880		< LOQ	ppm
Ethyl acetate	1400	5000		< LOQ	ppm
Ethyl ether	1400	5000		< LOQ	ppm
Ethylene glycol	186	620		< LOQ	ppm
Ethylene oxide	15	50		< LOQ	ppm
Heptane	1400	5000		< LOQ	ppm
Isopropyl acetate	1400	5000		< LOQ	ppm
Tetrahydrofuran	216	720		< LOQ	ppm
Ethanol	1400	NA	7	< LOQ	ppm

Date/Time Extracted: 10/11/24 13:21

Date/Time Analyzed: 10/11/24 23:02

*Analysis Method/SOP*LSOP #311

Sample extracted and analyzed at PREE Lab - South

3 - Total butanes are calculated as sum of n-butanes (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.

TIC - Tentatively Identified Compound 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.

Carson Newkirk
Laboratory Manager - 10/14/2024

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Safety Comp- E1912-1921

Pinnacle Analytics

010-101599328A3

Sample ID: C241668-01 **METRC Batch #:**

Matrix: Extract/Concentrate

Date Sampled: 10/07/24 09:00
Date Accepted: 10/07/24
Batch ID:
Batch Size:
Sampling Method/SOP: SOP.T.20.010

Heavy Metals Analysis

Date Extracted: 10/09/24 *Date Analyzed: 10/14/24* *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	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

Carson Newkirk
Laboratory Manager - 10/14/2024

PREE LABORATORIES

Certificate of Analysis

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

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Safety Comp- E1912-1921

Pinnacle Analytics
010-101599328A3
Sample ID: C241668-01 **METRC Batch #:**
Matrix: Extract/Concentrate

Date Sampled: 10/07/24 09:00
Date Accepted: 10/07/24
Batch ID:
Batch Size:
Sampling Method/SOP: SOP.T.20.010

Mycotoxins

Date Extracted: 10/10/24 *Date Analyzed: 10/10/24* *Analysis Method/SOP: LSOP #308*

Sample extracted and analyzed at PREE Lab - South

Analyte	LOQ (ppb)	Action Level	Result (ppb)
Total Aflatoxins	0.0100	20	ND
Ochratoxin A	0.0100	20	ND
Aflatoxin G2	0.0100	20	ND
Aflatoxin G1	0.0100	20	ND
Aflatoxin B2	0.0100	20	ND
Aflatoxin B1	0.0100	20	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

Carson Newkirk
Laboratory Manager - 10/14/2024

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

Quality Control

Batch: C24J071 - LSOP #309 Heavy Metal Quantification

Blank(C24J071-BLK1) **Extracted:** 10/09/24 17:37 **Analyzed:** 10/14/24 10:13

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(C24J071-BS1) **Extracted:** 10/09/24 17:37 **Analyzed:** 10/14/24 10:18

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	106	0.0800 (ug/g)	80-115		Lead	104	0.160 (ug/g)	80-115	
Mercury	105	0.0400 (ug/g)	80-115		Cadmium	104	0.0800 (ug/g)	80-115	

LCS Dup(C24J071-BSD1) **Extracted:** 10/09/24 17:37 **Analyzed:** 10/14/24 11:44

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	100	0.0800 (ug/g)	80-115		Lead	100	0.160 (ug/g)	80-115	
Mercury	99.0	0.0400 (ug/g)	80-115		Cadmium	98.3	0.0800 (ug/g)	80-115	

Batch: C24J077 - COR- PE/MY Combo Method

Blank(C24J077-BLK1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 13:28

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Acephate	< LOQ	0.020 (ppm)	< LOQ		Ochratoxin A	< LOQ	0.0100 (ppb)	< LOQ	
Acequinocyl	< LOQ	0.100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppb)	< LOQ	
Acetamiprid	< LOQ	0.020 (ppm)	< LOQ		Aflatoxin G1	< LOQ	0.0100 (ppb)	< LOQ	
Aflatoxin B2	< LOQ	0.0100 (ppb)	< LOQ		Aldicarb	< LOQ	0.020 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppb)	< LOQ		Avermectin B1	< LOQ	0.100 (ppm)	< LOQ	
Azoxystrobin	< LOQ	0.020 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppb)	< LOQ	
Bifenazate	< LOQ	0.020 (ppm)	< LOQ		Bifenthrin	< LOQ	0.100 (ppm)	< LOQ	
Boscalid	< LOQ	0.020 (ppm)	< LOQ		Carbaryl	< LOQ	0.020 (ppm)	< LOQ	
Carbofuran	< LOQ	0.020 (ppm)	< LOQ		Chlorantraniliprole	< LOQ	0.020 (ppm)	< LOQ	
Chlorfenapyr	< LOQ	0.500 (ppm)	< LOQ		Chlorpyrifos	< LOQ	0.020 (ppm)	< LOQ	
Clofentezine	< LOQ	0.100 (ppm)	< LOQ		Cyfluthrin	< LOQ	0.500 (ppm)	< LOQ	
Cypermethrin	< LOQ	0.500 (ppm)	< LOQ		Daminozide	< LOQ	0.100 (ppm)	< LOQ	
DDVP (Dichlorvos)	< LOQ	0.100 (ppm)	< LOQ		Diazinon	< LOQ	0.020 (ppm)	< LOQ	
Dimethoate	< LOQ	0.020 (ppm)	< LOQ		Ethoprophos	< LOQ	0.020 (ppm)	< LOQ	
Etofenprox	< LOQ	0.100 (ppm)	< LOQ		Etoxazole	< LOQ	0.020 (ppm)	< LOQ	
Fenoxycarb	< LOQ	0.020 (ppm)	< LOQ		Fenpyroximate	< LOQ	0.100 (ppm)	< LOQ	
Fipronil	< LOQ	0.020 (ppm)	< LOQ		Flonicamid	< LOQ	0.020 (ppm)	< LOQ	
Fludioxonil	< LOQ	0.100 (ppm)	< LOQ		Hexythiazox	< LOQ	0.020 (ppm)	< LOQ	
Imazalil	< LOQ	0.020 (ppm)	< LOQ		Imidacloprid	< LOQ	0.020 (ppm)	< LOQ	
Kresoxim-methyl	< LOQ	0.100 (ppm)	< LOQ		Malathion	< LOQ	0.020 (ppm)	< LOQ	
Metalaxyl	< LOQ	0.020 (ppm)	< LOQ		Methiocarb	< LOQ	0.020 (ppm)	< LOQ	
Methomyl	< LOQ	0.020 (ppm)	< LOQ		Methyl parathion	< LOQ	0.100 (ppm)	< LOQ	

Carson Newkirk
Laboratory Manager - 10/14/2024

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

Quality Control

Batch: C24J077 - COR- PE/MY Combo Method (Continued)

Blank(C24J077-BLK1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 13:28

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
MGK-264 (Both)	< LOQ	0.100 (ppm)	< LOQ		Myclobutanil	< LOQ	0.100 (ppm)	< LOQ	
Naled	< LOQ	0.020 (ppm)	< LOQ		Oxamyl	< LOQ	0.020 (ppm)	< LOQ	
Paclobutrazol	< LOQ	0.020 (ppm)	< LOQ		Permethrins (Both)	< LOQ	0.100 (ppm)	< LOQ	
Phosmet	< LOQ	0.020 (ppm)	< LOQ		Piperonyl butoxide	< LOQ	0.020 (ppm)	< LOQ	
Prallethrin	< LOQ	0.100 (ppm)	< LOQ		Propiconazole	< LOQ	0.100 (ppm)	< LOQ	
Propoxur	< LOQ	0.020 (ppm)	< LOQ		Pyrethrins (All 3)	< LOQ	0.500 (ppm)	< LOQ	
Pyridaben	< LOQ	0.020 (ppm)	< LOQ		Spinosad (Both)	< LOQ	0.100 (ppm)	< LOQ	
Spiromesifen	< LOQ	0.100 (ppm)	< LOQ		Spirotetramat	< LOQ	0.020 (ppm)	< LOQ	
Spiroxamine	< LOQ	0.020 (ppm)	< LOQ		Tebuconazole	< LOQ	0.020 (ppm)	< LOQ	
Thiacloprid	< LOQ	0.020 (ppm)	< LOQ		Thiamethoxam	< LOQ	0.020 (ppm)	< LOQ	
Trifloxystrobin	< LOQ	0.020 (ppm)	< LOQ						

LCS(C24J077-BS1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 13:43

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	133	(ppm)	60-120	HIGH BIAS	Ochratoxin A	104	(ppb)	60-120	
Acequinocyl	118	(ppm)	40-160		Aflatoxin G2	97.3	(ppb)	60-120	
Acetamiprid	118	(ppm)	60-120		Aflatoxin G1	107	(ppb)	60-120	
Aflatoxin B2	103	(ppb)	60-120		Aldicarb	125	(ppm)	60-120	HIGH BIAS
Aflatoxin B1	104	(ppb)	60-120		Avermectin B1	126	(ppm)	50-150	
Azoxystrobin	121	(ppm)	60-120	HIGH BIAS	Bifenazate	123	(ppm)	60-120	HIGH BIAS
Bifenthrin	94.0	(ppm)	50-150		Boscalid	115	(ppm)	60-120	
Carbaryl	124	(ppm)	60-120	HIGH BIAS	Carbofuran	114	(ppm)	60-120	
Chlorantraniliprole	112	(ppm)	60-120		Chlorfenapyr	110	(ppm)	60-120	
Chlorpyrifos	118	(ppm)	60-120		Clofentezine	106	(ppm)	60-120	
Cyfluthrin	105	(ppm)	50-150		Cypermethrin	109	(ppm)	50-150	
Daminozide	107	(ppm)	60-120		DDVP (Dichlorvos)	119	(ppm)	60-120	
Diazinon	122	(ppm)	60-120	HIGH BIAS	Dimethoate	121	(ppm)	60-120	HIGH BIAS
Ethoprophos	123	(ppm)	60-120	HIGH BIAS	Etofenprox	116	(ppm)	50-150	
Etoxazole	113	(ppm)	60-120		Fenoxycarb	107	(ppm)	60-120	
Fenpyroximate	112	(ppm)	60-120		Fipronil	115	(ppm)	60-120	
Flonicamid	118	(ppm)	60-120		Fludioxonil	129	(ppm)	50-150	
Hexythiazox	117	(ppm)	60-120		Imazalil	107	(ppm)	60-120	
Imidacloprid	126	(ppm)	60-120	HIGH BIAS	Kresoxim-methyl	128	(ppm)	60-120	HIGH BIAS
Malathion	125	(ppm)	60-120	HIGH BIAS	Metalaxyl	123	(ppm)	60-120	HIGH BIAS
Methiocarb	129	(ppm)	60-120	HIGH BIAS	Methomyl	127	(ppm)	60-120	HIGH BIAS
Methyl parathion	117	(ppm)	50-150		MGK I	109	(ppm)	50-150	
MGK II	112	(ppm)	50-150		Myclobutanil	110	(ppm)	60-120	

Carson Newkirk
Laboratory Manager - 10/14/2024

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Quality Control

Batch: C24J077 - COR- PE/MY Combo Method (Continued)

LCS(C24J077-BS1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 13:43

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Naled	118	(ppm)	50-150		Oxamyl	122	(ppm)	60-120	HIGH BIAS
Paclobutrazol	111	(ppm)	60-120		Permethrins Cis	111	(ppm)	50-150	
Permethrins Trans	105	(ppm)	50-150		Phosmet	126	(ppm)	50-150	
Piperonyl butoxide	123	(ppm)	60-120	HIGH BIAS	Prallethrin	112	(ppm)	60-120	
Propiconazole	107	(ppm)	60-120		Propoxur	114	(ppm)	60-120	
Pyrethrins Cinerin	112	(ppm)	60-120		Pyrethrins Jasmolin	114	(ppm)	60-120	
Pyrethrins Pyrethrin	108	(ppm)	60-120		Pyridaben	118	(ppm)	50-150	
Spinosyn A	119	(ppm)	50-150		Spinosyn D	120	(ppm)	50-150	
Spiromesifen	130	(ppm)	60-120	HIGH BIAS	Spirotetramat	117	(ppm)	60-120	
Spiroxamine	121	(ppm)	60-120	HIGH BIAS	Tebuconazole	110	(ppm)	60-120	
Thiacloprid	120	(ppm)	60-120		Thiamethoxam	130	(ppm)	60-120	HIGH BIAS
Trifloxystrobin	120	(ppm)	60-120						

LCS Dup(C24J077-BSD1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 16:46

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	131	(ppm)	60-120	BSDRPD	Ochratoxin A	131	(ppb)	60-120	MSDRPD
Acequinocyl	109	(ppm)	40-160		Aflatoxin G2	114	(ppb)	60-120	
Acetamiprid	130	(ppm)	60-120	BSDRPD	Aflatoxin G1	137	(ppb)	60-120	MSDRPD
Aflatoxin B2	122	(ppb)	60-120	BSDRPD	Aldicarb	124	(ppm)	60-120	BSDRPD
Aflatoxin B1	124	(ppb)	60-120	BSDRPD	Avermectin B1	131	(ppm)	50-150	
Azoxystrobin	146	(ppm)	60-120	BSDRPD	Bifenazate	134	(ppm)	60-120	BSDRPD
Bifenthrin	108	(ppm)	50-150		Boscalid	130	(ppm)	60-120	BSDRPD
Carbaryl	143	(ppm)	60-120	BSDRPD	Carbofuran	136	(ppm)	60-120	BSDRPD
Chlorantraniliprole	152	(ppm)	60-120	MSDRPD	Chlorfenapyr	125	(ppm)	60-120	BSDRPD
Chlorpyrifos	119	(ppm)	60-120		Clofentezine	128	(ppm)	60-120	BSDRPD
Cyfluthrin	121	(ppm)	50-150		Cypermethrin	119	(ppm)	50-150	
Daminozide	110	(ppm)	60-120		DDVP (Dichlorvos)	129	(ppm)	60-120	BSDRPD
Diazinon	124	(ppm)	60-120	BSDRPD	Dimethoate	132	(ppm)	60-120	BSDRPD
Ethoprophos	131	(ppm)	60-120	BSDRPD	Etofenprox	130	(ppm)	50-150	
Etoxazole	118	(ppm)	60-120		Fenoxycarb	133	(ppm)	60-120	BSDRPD
Fenpyroximate	117	(ppm)	60-120		Fipronil	131	(ppm)	60-120	BSDRPD
Flonicamid	144	(ppm)	60-120	BSDRPD	Fludioxonil	145	(ppm)	50-150	
Hexythiazox	121	(ppm)	60-120	BSDRPD	Imazalil	139	(ppm)	60-120	BSDRPD
Imidacloprid	141	(ppm)	60-120	BSDRPD	Kresoxim-methyl	127	(ppm)	60-120	BSDRPD
Malathion	135	(ppm)	60-120	BSDRPD	Metalaxyl	143	(ppm)	60-120	BSDRPD
Methiocarb	132	(ppm)	60-120	BSDRPD	Methomyl	129	(ppm)	60-120	BSDRPD
Methyl parathion	127	(ppm)	50-150		MGK I	129	(ppm)	50-150	

Carson Newkirk
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Quality Control

Batch: C24J077 - COR- PE/MY Combo Method (Continued)

LCS Dup(C24J077-BSD1) **Extracted:** 10/10/24 09:15 **Analyzed:** 10/10/24 16:46

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
MGK II	125	(ppm)	50-150		Myclobutanil	139	(ppm)	60-120	BSDRPD
Naled	141	(ppm)	50-150		Oxamyl	139	(ppm)	60-120	BSDRPD
Paclobutrazol	141	(ppm)	60-120	BSDRPD	Permethrins Cis	121	(ppm)	50-150	
Permethrins Trans	118	(ppm)	50-150		Phosmet	141	(ppm)	50-150	
Piperonyl butoxide	123	(ppm)	60-120	BSDRPD	Prallethrin	127	(ppm)	60-120	BSDRPD
Propiconazole	124	(ppm)	60-120	BSDRPD	Propoxur	134	(ppm)	60-120	BSDRPD
Pyrethrins Cinerin	128	(ppm)	60-120	BSDRPD	Pyrethrins Jasmolin	124	(ppm)	60-120	BSDRPD
Pyrethrins Pyrethrin	120	(ppm)	60-120		Pyridaben	128	(ppm)	50-150	
Spinosyn A	132	(ppm)	50-150		Spinosyn D	136	(ppm)	50-150	
Spiromesifen	116	(ppm)	60-120		Spirotetramat	134	(ppm)	60-120	BSDRPD
Spiroxamine	134	(ppm)	60-120	BSDRPD	Tebuconazole	131	(ppm)	60-120	BSDRPD
Thiacloprid	138	(ppm)	60-120	BSDRPD	Thiamethoxam	153	(ppm)	60-120	BSDRPD
Trifloxystrobin	126	(ppm)	60-120	BSDRPD					

Batch: C24J091 - LSOP #311 Residual Solvent Analysis by GCMS

Blank(C24J091-BLK1) **Extracted:** 10/11/24 13:21 **Analyzed:** 10/11/24 18:41

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Butanes	< LOQ	500 (ppm)	< LOQ		n-Butane	< LOQ	500 (ppm)	< LOQ	
iso-Butane	< LOQ	500 (ppm)	< LOQ		Hexanes	< LOQ	87 (ppm)	< LOQ	
n-Hexane	< LOQ	87 (ppm)	< LOQ		2-Methylpentane	< LOQ	87 (ppm)	< LOQ	
3-Methylpentane	< LOQ	87 (ppm)	< LOQ		2,2-Dimethylbutane	< LOQ	87 (ppm)	< LOQ	
2,3-Dimethylbutane	< LOQ	87 (ppm)	< LOQ		Pentanes	< LOQ	700 (ppm)	< LOQ	
n-Pentane	< LOQ	700 (ppm)	< LOQ		iso-Pentane	< LOQ	700 (ppm)	< LOQ	
Neopentane	< LOQ	125 (ppm)	< LOQ		Xylenes	< LOQ	1302 (ppm)	< LOQ	
Xylenes MP	< LOQ	1302 (ppm)	< LOQ		Xylene - O	< LOQ	651 (ppm)	< LOQ	
2-Propanol (IPA)	< LOQ	1400 (ppm)	< LOQ		Ethyl benzene	< LOQ	651 (ppm)	< LOQ	
Acetone	< LOQ	1400 (ppm)	< LOQ		Acetonitrile	< LOQ	123 (ppm)	< LOQ	
Benzene	< LOQ	0.6 (ppm)	< LOQ		Methanol	< LOQ	1000 (ppm)	< LOQ	
Propane	< LOQ	200 (ppm)	< LOQ		Toluene	< LOQ	267 (ppm)	< LOQ	
Dichloromethane	< LOQ	180 (ppm)	< LOQ		1,4-Dioxane	< LOQ	114 (ppm)	< LOQ	
2-Butanol	< LOQ	1400 (ppm)	< LOQ		2-Ethoxyethanol	< LOQ	48 (ppm)	< LOQ	
Cumene	< LOQ	21 (ppm)	< LOQ		Cyclohexane	< LOQ	1139 (ppm)	< LOQ	
Ethyl acetate	< LOQ	1400 (ppm)	< LOQ		Ethyl ether	< LOQ	1400 (ppm)	< LOQ	
Ethylene glycol	< LOQ	186 (ppm)	< LOQ		Ethylene oxide	< LOQ	15 (ppm)	< LOQ	
Heptane	< LOQ	1400 (ppm)	< LOQ		Isopropyl acetate	< LOQ	1400 (ppm)	< LOQ	
Tetrahydrofuran	< LOQ	216 (ppm)	< LOQ		Ethanol	< LOQ	1400 (ppm)	< LOQ	

Carson Newkirk
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Quality Control

Batch: C24J091 - LSOP #311 Residual Solvent Analysis by GCMS (Continued)

LCS(C24J091-BS1) **Extracted:** 10/11/24 13:21 **Analyzed:** 10/11/24 19:10

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane	78.0	(ppm)	60-120		iso-Butane	79.9	(ppm)	60-120	
n-Hexane	105	(ppm)	60-120		2-Methylpentane	105	(ppm)	60-120	
3-Methylpentane	103	(ppm)	60-120		2,2-Dimethylbutane	104	(ppm)	60-120	
2,3-Dimethylbutane	104	(ppm)	60-120		n-Pentane	101	(ppm)	60-120	
iso-Pentane	98.0	(ppm)	60-120		Neopentane	82.6	(ppm)	60-120	
Xylenes MP	102	(ppm)	60-120		2-Propanol (IPA)	110	(ppm)	60-120	
Ethyl benzene	103	(ppm)	60-120		Acetone	111	(ppm)	60-120	
Acetonitrile	105	(ppm)	60-120		Benzene	111	(ppm)	60-120	
Methanol	105	(ppm)	60-120		Propane	77.1	(ppm)	60-120	
Toluene	99.3	(ppm)	60-120		Dichloromethane	108	(ppm)	60-120	
1,4-Dioxane	105	(ppm)	60-120		2-Butanol	105	(ppm)	60-120	
2-Ethoxyethanol	105	(ppm)	60-120		Cumene	98.7	(ppm)	60-120	
Cyclohexane	105	(ppm)	60-120		Ethyl acetate	106	(ppm)	60-120	
Ethyl ether	103	(ppm)	60-120		Ethylene glycol	98.3	(ppm)	60-120	
Ethylene oxide	101	(ppm)	60-120		Heptane	105	(ppm)	60-120	
Isopropyl acetate	105	(ppm)	60-120		Tetrahydrofuran	107	(ppm)	60-120	

LCS(C24J091-BS2) **Extracted:** 10/11/24 13:21 **Analyzed:** 10/11/24 20:08

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane		500 (ppm)	60-120		iso-Butane		500 (ppm)	60-120	
n-Hexane		87 (ppm)	60-120		2-Methylpentane		87 (ppm)	60-120	
3-Methylpentane		87 (ppm)	60-120		2,2-Dimethylbutane		87 (ppm)	60-120	
2,3-Dimethylbutane		87 (ppm)	60-120		n-Pentane		700 (ppm)	60-120	
iso-Pentane		700 (ppm)	60-120		Neopentane		125 (ppm)	60-120	
Xylenes MP		1302 (ppm)	60-120		2-Propanol (IPA)		1400 (ppm)	60-120	
Ethyl benzene		651 (ppm)	60-120		Acetone		1400 (ppm)	60-120	
Acetonitrile		123 (ppm)	60-120		Benzene		0.6 (ppm)	60-120	
Methanol		1000 (ppm)	60-120		Propane	88.2	(ppm)	60-120	
Toluene		267 (ppm)	60-120		Dichloromethane		180 (ppm)	60-120	
1,4-Dioxane		114 (ppm)	60-120		2-Butanol		1400 (ppm)	60-120	
2-Ethoxyethanol		48 (ppm)	60-120		Cumene		21 (ppm)	60-120	
Cyclohexane		1139 (ppm)	60-120		Ethyl acetate		1400 (ppm)	60-120	
Ethyl ether		1400 (ppm)	60-120		Ethylene glycol		186 (ppm)	60-120	
Ethylene oxide		15 (ppm)	60-120		Heptane		1400 (ppm)	60-120	
Isopropyl acetate		1400 (ppm)	60-120		Tetrahydrofuran		216 (ppm)	60-120	

Carson Newkirk
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Quality Control

Batch: C24J091 - LSOP #311 Residual Solvent Analysis by GCMS (Continued)

LCS Dup(C24J091-BSD1) **Extracted:** 10/11/24 13:21 **Analyzed:** 10/11/24 19:39

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane	77.3	(ppm)	60-120		iso-Butane	80.7	(ppm)	60-120	
n-Hexane	101	(ppm)	60-120		2-Methylpentane	102	(ppm)	60-120	
3-Methylpentane	101	(ppm)	60-120		2,2-Dimethylbutane	101	(ppm)	60-120	
2,3-Dimethylbutane	102	(ppm)	60-120		n-Pentane	99.7	(ppm)	60-120	
iso-Pentane	95.8	(ppm)	60-120		Neopentane	82.5	(ppm)	60-120	
Xylenes MP	98.0	(ppm)	60-120		2-Propanol (IPA)	104	(ppm)	60-120	
Ethyl benzene	99.3	(ppm)	60-120		Acetone	107	(ppm)	60-120	
Acetonitrile	102	(ppm)	60-120		Benzene	103	(ppm)	60-120	
Methanol	101	(ppm)	60-120		Propane	77.4	(ppm)	60-120	
Toluene	96.6	(ppm)	60-120		Dichloromethane	105	(ppm)	60-120	
1,4-Dioxane	103	(ppm)	60-120		2-Butanol	100	(ppm)	60-120	
2-Ethoxyethanol	101	(ppm)	60-120		Cumene	92.8	(ppm)	60-120	
Cyclohexane	101	(ppm)	60-120		Ethyl acetate	103	(ppm)	60-120	
Ethyl ether	99.9	(ppm)	60-120		Ethylene glycol	88.8	(ppm)	60-120	
Ethylene oxide	97.0	(ppm)	60-120		Heptane	101	(ppm)	60-120	
Isopropyl acetate	100	(ppm)	60-120		Tetrahydrofuran	103	(ppm)	60-120	

LCS Dup(C24J091-BSD2) **Extracted:** 10/11/24 13:21 **Analyzed:** 10/11/24 20:37

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane		500 (ppm)	60-120		iso-Butane		500 (ppm)	60-120	
n-Hexane		87 (ppm)	60-120		2-Methylpentane		87 (ppm)	60-120	
3-Methylpentane		87 (ppm)	60-120		2,2-Dimethylbutane		87 (ppm)	60-120	
2,3-Dimethylbutane		87 (ppm)	60-120		n-Pentane		700 (ppm)	60-120	
iso-Pentane		700 (ppm)	60-120		Neopentane		125 (ppm)	60-120	
Xylenes MP		1302 (ppm)	60-120		2-Propanol (IPA)		1400 (ppm)	60-120	
Ethyl benzene		651 (ppm)	60-120		Acetone		1400 (ppm)	60-120	
Acetonitrile		123 (ppm)	60-120		Benzene		0.6 (ppm)	60-120	
Methanol		1000 (ppm)	60-120		Propane	86.5	(ppm)	60-120	
Toluene		267 (ppm)	60-120		Dichloromethane		180 (ppm)	60-120	
1,4-Dioxane		114 (ppm)	60-120		2-Butanol		1400 (ppm)	60-120	
2-Ethoxyethanol		48 (ppm)	60-120		Cumene		21 (ppm)	60-120	
Cyclohexane		1139 (ppm)	60-120		Ethyl acetate		1400 (ppm)	60-120	
Ethyl ether		1400 (ppm)	60-120		Ethylene glycol		186 (ppm)	60-120	
Ethylene oxide		15 (ppm)	60-120		Heptane		1400 (ppm)	60-120	
Isopropyl acetate		1400 (ppm)	60-120		Tetrahydrofuran		216 (ppm)	60-120	

Notes and Definitions

Carson Newkirk
Laboratory Manager - 10/14/2024

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Item	Definition
BSDRPD	Duplicate recovery not applicable as sample only assesed for RPD <20%
HIGH BIAS	High analyte recovery, yet no detection of that analyte in samples.
MSDRPD	RPD between MS/MSD is greater than 20%, yet no detections of the applicable analytes in samples.

Carson Newkirk
Laboratory Manager - 10/14/2024

PINNACLE ANALYTICS

Quality Control Results

Analyst: Megan A.

Analysis Batch: *9-12-2024 H4 128, 276, 302 Solids*

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

	Duplicate RPD		LCS % Recovery		Method Blank	
	HS-0-E1911-b	Limit	C-SL-091224	Limits	C-SB-091224	Limit
CBDA	<LOQ%	30%	101.0%	90-110%	<LOQ/2	LOQ/2
CBD	0.556%	10%	107.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	0.0626%	10%	109.0%	90-110%	<LOQ/2	LOQ/2
d8-THC	<LOQ%	30%	103.0%	90-110%	<LOQ/2	LOQ/2
THCA	1.55%	10%	101.0%	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.

Kris Ford, PhD
Lab Director