



PINNACLE ANALYTICS

Potency Results

Sample Name: *HD9 Oil*

Client:

Client Batch ID:

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

Sample ID: rC-HS-241-C2352

Matrix: Concentrate

Prep Analyst: Megan E.

Analysis Method: 0630322+1 H4 4-21-2022 #1.lcm

Sampling Method: N/A

Reference Method: JCB 2009: HPLC/DAD

Analysis Batch: 2-14-2023 H4 128, 205, 241, 276 Solids

Date Sampled: 2/9/2023

Date Reported: 2/15/2023

Client License: N/A

4188 W Main St

Medford OR 97504

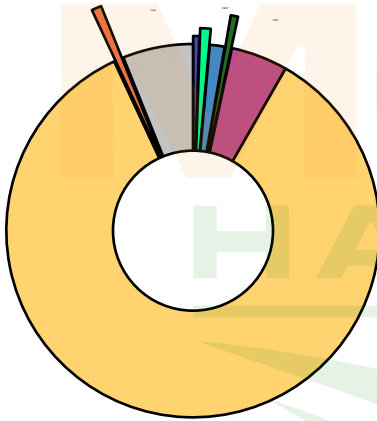
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Total THC (THCA*0.877+d9-THC)	84.8%
Total CBD (CBDA*0.877+CBD)	1.28%
Moisture Content	N/A

Cannabinoid	% Weight	mg/g
CBDVA	<LOQ	<LOQ
CBDV	0.528	5.28
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	0.91	9.1
CBD*	1.28	12.8
THCV	0.633	6.33
CBN	4.91	49.1
d9-THC*	84.8	848.0
d8-THC	<LOQ	<LOQ
CBC	0.857	8.57
THCA*	<LOQ	<LOQ
Total Cannabinoids	93.9	939.0

*ORELAP Accredited Analyte

Limit Of Quantitation: 0.2%, analyte not measured



CBDV	THC	CBC
CBG	CBN	Other
CBD*	d9-THC*	



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Report generated by Routine_Potency_Rev9_4-7-2022

Kris Ford, PhD
Lab Director



PINNACLE — ANALYTICS —

Quality Control Results

Analyst: Megan E.

Analysis Batch: 2-14-2023 H4 128, 205, 241, 276 Solids

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

	Duplicate RPD		LCS % Recovery		Method Blank	
	HS-0-C2348-b	Limit	C-SL-021423	Limits	C-SB-021423	Limit
CBDA	<LOQ%	30%	100.0%	90-110%	<LOQ/2	LOQ/2
CBD	0.871%	30%	100.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	7.03%	10%	100.0%	90-110%	<LOQ/2	LOQ/2
THCA	<LOQ%	30%	96.3%	90-110%	<LOQ/2	LOQ/2

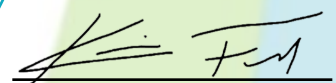
RPD: Relative Percent Difference between unknown sample and its duplicate

LCS: Laboratory Control Sample with known concentration

Case Comments: There were no divergences from ordinary Quality Control procedures or SOPs.



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Report generated by Routine_Potency_Rev9_4-7-2022


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
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Oil C2352

Pinnacle Analytics
010-101599328A3

Sample ID: C230302-01

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: NA

Date Accepted: 02/21/23

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 02/22/23 08:09

Date/Time Analyzed: 2/23/2023 10:34:00AM

Analysis Method/SOP: LSOP #307

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 insecticide
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
Fonicamid	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 insecticide
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 - 3/1/2023

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Oil C2352

Pinnacle Analytics
010-101599328A3

Sample ID: C230302-01

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: NA

Date Accepted: 02/21/23

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 02/22/23 08:09

Date/Time Analyzed: 2/23/2023 10:34:00AM

Analysis Method/SOP: LSOP #307

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	0.020	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	
Permethrins Cis	0.100	0.2	< LOQ	ppm	
Permethrins Trans	0.100	0.2	< LOQ	ppm	
Phosmet	0.020	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	0.020	2	0.150	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	
Pyrethrins Cinerin	0.500	1	< LOQ	ppm	
Pyrethrins Jasmolin	0.500	1	< LOQ	ppm	
Pyrethrins Pyrethrin	0.500	1	< LOQ	ppm	
Pyridaben	0.020	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	0.020	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 - 3/1/2023

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Oil C2352

Pinnacle Analytics

010-101599328A3

Sample ID: C230302-01

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: NA

Date Accepted: 02/21/23

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Residual Solvents

Analyte	LOQ	Action Level	Result	Units
Butanes	125	5000 ³	< LOQ	ppm
n-Butane	125	5000	< LOQ	ppm
iso-Butane	125	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	651	2170	< LOQ	ppm
1,2-Dimethylbenzene	651	2170	< LOQ	ppm
1,3-Dimethylbenzene	651	2170	< LOQ	ppm
1,4-Dimethylbenzene	651	2170	< LOQ	ppm
Ethyl benzene	651	NA	< LOQ	ppm
2-Propanol (IPA)	700	5000	< LOQ	ppm
Acetone	700	5000	< LOQ	ppm
Acetonitrile	123	410	< LOQ	ppm
Benzene	0.6	2	< LOQ	ppm
Methanol	500	3000	< LOQ	ppm
Propane	50	5000	< LOQ	ppm
Toluene	267	890	< LOQ	ppm
Dichloromethane	180	600	< LOQ	ppm
1,4-Dioxane	114	380	< LOQ	ppm
2-Butanol	700	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	700	5000	< LOQ	ppm
Ethylene glycol	186	620	< LOQ	ppm
Ethylene oxide	15	50	< LOQ	ppm
Heptane	700	5000	< LOQ	ppm
Isopropyl acetate	700	5000	< LOQ	ppm
Tetrahydrofuran	216	720	< LOQ	ppm
Ethanol	700	NA ⁷	< LOQ	ppm

Date/Time Extracted: 02/23/23 09:18

Date/Time Analyzed: 02/24/23 08:07

Analysis Method/SOP: SOP.T.40.031

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



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Laboratory Manager - 3/1/2023

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Oil C2352
Pinnacle Analytics
Sample ID: C230302-01
Matrix: Extract/Concentrate Date Accepted: 2/21/2023 13:24

Heavy Metals Analysis

Date Extracted: 02/28/23

Date Analyzed: 02/28/23

Analysis Method/SOP: LSOP #309

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

MOON
HARVEST

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
Heavy metals analysis is not an ORELAP accredited method



Carson Newkirk
Laboratory Manager - 3/1/2023

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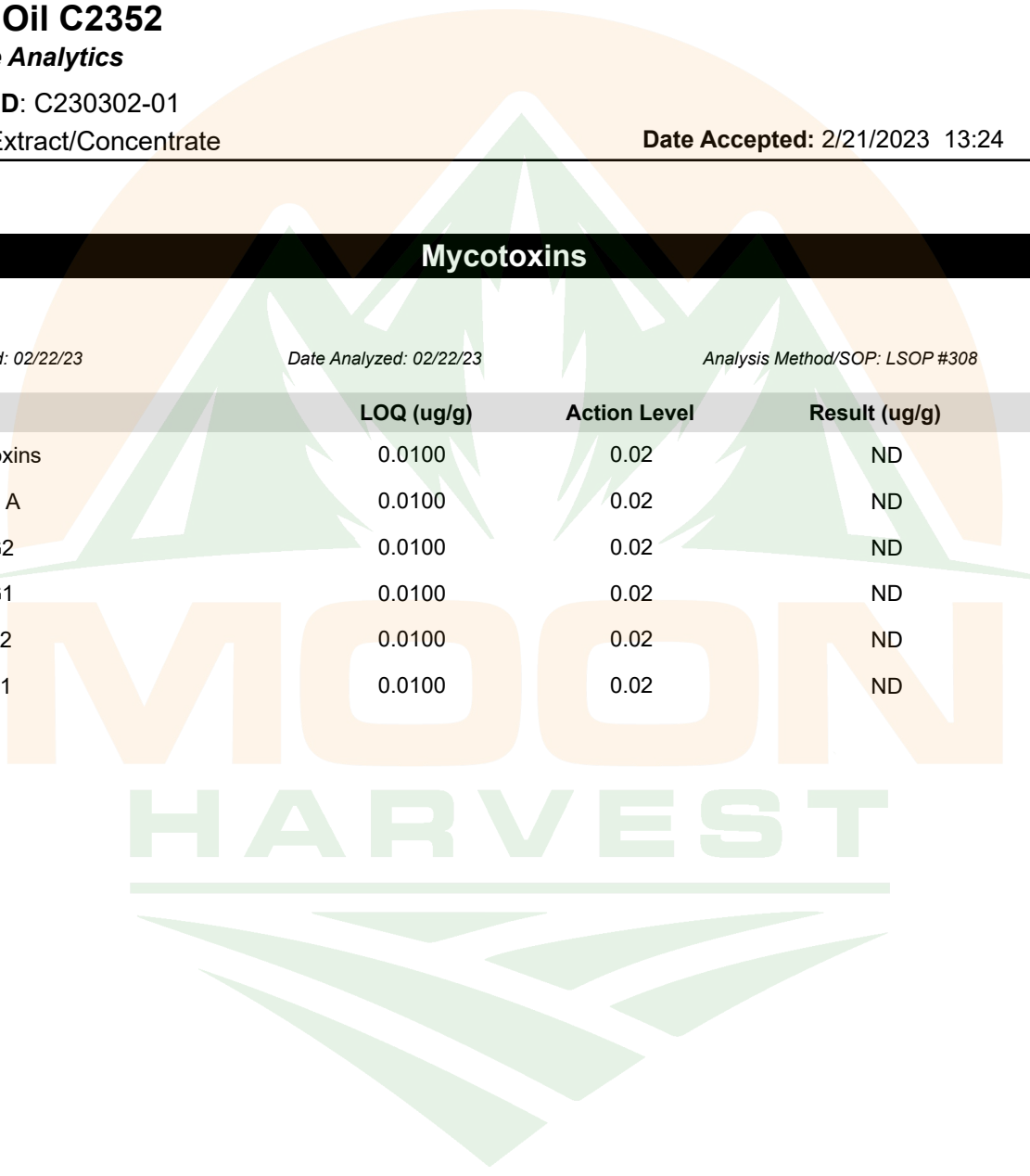
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Oil C2352	
<i>Pinnacle Analytics</i>	
Sample ID: C230302-01	Date Accepted: 2/21/2023 13:24
Matrix: Extract/Concentrate	


Mycotoxins

Date Extracted: 02/22/23 Date Analyzed: 02/22/23 Analysis Method/SOP: LSOP #308

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 Elmer Qsight LX50.

 Carson Newkirk
Laboratory Manager - 3/1/2023

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Quality Control

Batch: C23B127 - LSOP #307 Pesticide Quantification by LCMS

Blank(C23B127-BLK1)			Extracted: 02/22/23 08:09		Analyzed: 02/23/23 10:34		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Acephate	< LOQ	0.020 (ppm)	< LOQ	Acequinocyl	< LOQ	0.100 (ppm)	< LOQ
Acetamiprid	< LOQ	0.020 (ppm)	< LOQ	Aldicarb	< LOQ	0.020 (ppm)	< LOQ
Avermectin B1	< LOQ	0.100 (ppm)	< LOQ	Azoxystrobin	< LOQ	0.020 (ppm)	< LOQ
Bifentazate	< 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	Fonicamid	< 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
MGK I	< LOQ	0.100 (ppm)	< LOQ	MGK II	< LOQ	0.100 (ppm)	< LOQ
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
Permethrins Cis	< LOQ	0.100 (ppm)	< LOQ	Permethrins Trans	< 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
Pyrethrins Cinerin	< LOQ	0.500 (ppm)	< LOQ	Pyrethrins Jasmolin	< LOQ	0.500 (ppm)	< LOQ
Pyrethrins Pyrethrin	< LOQ	0.500 (ppm)	< LOQ	Pyridaben	< LOQ	0.020 (ppm)	< LOQ
Spinosad (Both)	< LOQ	0.100 (ppm)	< LOQ	Spinosyn A	< LOQ	0.100 (ppm)	< LOQ
Spinosyn D	< 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(C23B127-BS1)			Extracted: 02/22/23 08:09		Analyzed: 02/23/23 10:34		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits

Carson Newkirk
Laboratory Manager - 3/1/2023

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Quality Control

Batch: C23B127 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS(C23B127-BS1)			Extracted: 02/22/23 08:09		Analyzed: 02/23/23 10:34		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Acephate	97.3	(ppm)	60-120	Acequinocyl	102	(ppm)	40-160
Acetamiprid	94.4	(ppm)	60-120	Aldicarb	86.7	(ppm)	60-120
Avermectin B1	113	(ppm)	50-150	Azoxystrobin	91.4	(ppm)	60-120
Bifenazate	96.2	(ppm)	60-120	Bifenthrin	96.7	(ppm)	50-150
Boscalid	87.4	(ppm)	60-120	Carbaryl	96.8	(ppm)	60-120
Carbofuran	95.8	(ppm)	60-120	Chlorantraniliprole	91.7	(ppm)	60-120
Chlorfenapyr	85.4	(ppm)	60-120	Chlorpyrifos	94.4	(ppm)	60-120
Clofentezine	89.7	(ppm)	60-120	Cyfluthrin	92.7	(ppm)	50-150
Cypermethrin	95.6	(ppm)	50-150	Daminozide	102	(ppm)	60-120
DDVP (Dichlorvos)	93.2	(ppm)	60-120	Diazinon	93.7	(ppm)	60-120
Dimethoate	96.1	(ppm)	60-150	Ethoprophos	92.2	(ppm)	60-120
Etofenprox	97.7	(ppm)	50-150	Etoxazole	95.3	(ppm)	60-120
Fenoxycarb	95.8	(ppm)	60-120	Fenpyroximate	99.0	(ppm)	60-120
Fipronil	90.3	(ppm)	60-120	Fonicamid	90.3	(ppm)	60-120
Fludioxonil	100	(ppm)	50-150	Hexythiazox	90.7	(ppm)	60-120
Imazalil	97.7	(ppm)	60-120	Imidacloprid	97.0	(ppm)	60-120
Kresoxim-methyl	91.2	(ppm)	60-120	Malathion	91.1	(ppm)	60-120
Metalaxyl	94.5	(ppm)	60-120	Methiocarb	94.1	(ppm)	60-120
Methomyl	96.5	(ppm)	60-120	Methyl parathion	93.2	(ppm)	50-150
MGK I	105	(ppm)	50-150	MGK II	111	(ppm)	50-150
Myclobutanil	96.8	(ppm)	60-120	Naled	91.5	(ppm)	50-150
Oxamyl	96.4	(ppm)	60-120	Paclobutrazol	91.6	(ppm)	60-120
Permethrins Cis	95.6	(ppm)	50-150	Permethrins Trans	92.6	(ppm)	50-150
Phosmet	95.3	(ppm)	50-150	Piperonyl butoxide	97.5	(ppm)	60-120
Prallethrin	94.7	(ppm)	60-120	Propiconazole	92.5	(ppm)	60-120
Propoxur	95.8	(ppm)	60-120	Pyrethrins Cinerin	99.8	(ppm)	60-120
Pyrethrins Jasmolin	106	(ppm)	60-120	Pyrethrins Pyrethrin	94.8	(ppm)	60-120
Pyridaben	95.8	(ppm)	50-150	Spinosyn A	86.2	(ppm)	50-150
Spinosyn D	94.1	(ppm)	50-150	Spiromesifen	109	(ppm)	60-120
Spirotetramat	91.1	(ppm)	50-150	Spiroxamine	94.3	(ppm)	50-150
Tebuconazole	93.8	(ppm)	50-150	Thiacloprid	98.0	(ppm)	50-150
Thiamethoxam	93.2	(ppm)	50-150	Trifloxystrobin	93.5	(ppm)	50-150

LCS Dup(C23B127-BSD1)			Extracted: 02/22/23 08:09		Analyzed: 02/23/23 10:34		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Acephate	99.3	(ppm)	60-120	Acequinocyl	101	(ppm)	40-160
Acetamiprid	95.4	(ppm)	60-120	Aldicarb	94.7	(ppm)	60-120



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Quality Control

Batch: C23B127 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS Dup(C23B127-BSD1)			Extracted: 02/22/23 08:09		Analyzed: 02/23/23 10:34		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Avermectin B1	121	(ppm)	50-150	Azoxystrobin	96.4	(ppm)	60-120
Bifenazate	104	(ppm)	60-120	Bifenthrin	102	(ppm)	50-150
Boscalid	94.4	(ppm)	60-120	Carbaryl	99.8	(ppm)	60-120
Carbofuran	102	(ppm)	60-120	Chlorantraniliprole	96.7	(ppm)	60-120
Chlorfenapyr	91.4	(ppm)	60-120	Chlorpyrifos	108	(ppm)	60-120
Clofentezine	99.7	(ppm)	60-120	Cyfluthrin	93.7	(ppm)	50-150
Cypermethrin	97.6	(ppm)	50-150	Daminozide	100	(ppm)	60-120
DDVP (Dichlorvos)	93.2	(ppm)	60-120	Diazinon	94.7	(ppm)	60-120
Dimethoate	98.1	(ppm)	60-150	Ethoprophos	96.2	(ppm)	60-120
Etofenprox	101	(ppm)	50-150	Etoxazole	105	(ppm)	60-120
Fenoxycarb	95.8	(ppm)	60-120	Fenpyroximate	103	(ppm)	60-120
Fipronil	96.2	(ppm)	60-120	Flonicamid	104	(ppm)	60-120
Fludioxonil	103	(ppm)	50-150	Hexythiazox	101	(ppm)	60-120
Imazalil	101	(ppm)	60-120	Imidacloprid	101	(ppm)	60-120
Kresoxim-methyl	97.2	(ppm)	60-120	Malathion	96.0	(ppm)	60-120
Metalaxyl	96.5	(ppm)	60-120	Methiocarb	98.0	(ppm)	60-120
Methomyl	99.5	(ppm)	60-120	Methyl parathion	91.2	(ppm)	50-150
MGK I	96.7	(ppm)	50-150	MGK II	112	(ppm)	50-150
Myclobutanil	99.8	(ppm)	60-120	Naled	97.5	(ppm)	50-150
Oxamyl	101	(ppm)	60-120	Paclobutrazol	95.6	(ppm)	60-120
Permethrins Cis	95.6	(ppm)	50-150	Permethrins Trans	102	(ppm)	50-150
Phosmet	99.3	(ppm)	50-150	Piperonyl butoxide	98.5	(ppm)	60-120
Prallethrin	102	(ppm)	60-120	Propiconazole	100	(ppm)	60-120
Propoxur	102	(ppm)	60-120	Pyrethrins Cinerin	94.8	(ppm)	60-120
Pyrethrins Jasmolin	103	(ppm)	60-120	Pyrethrins Pyrethrin	101	(ppm)	60-120
Pyridaben	104	(ppm)	50-150	Spinosyn A	97.1	(ppm)	50-150
Spinosyn D	104	(ppm)	50-150	Spiromesifen	94.7	(ppm)	60-120
Spirotetramat	98.0	(ppm)	50-150	Spiroxamine	100	(ppm)	50-150
Tebuconazole	98.8	(ppm)	50-150	Thiacloprid	97.0	(ppm)	50-150
Thiamethoxam	96.2	(ppm)	50-150	Trifloxystrobin	91.5	(ppm)	50-150

Batch: C23B130 - LSOP #308 Mycotoxin Quantification by LCMS

Blank(C23B130-BLK1)			Extracted: 02/22/23 11:53		Analyzed: 02/22/23 13:17		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
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



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Batch: C23B130 - LSOP #308 Mycotoxin Quantification by LCMS (Continued)

Blank(C23B130-BLK2)				Extracted: 02/22/23 11:53		Analyzed: 02/22/23 13:30	
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
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(C23B130-BS1)				Extracted: 02/22/23 11:53		Analyzed: 02/22/23 13:24	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Ochratoxin A	74.4	(ppm)	60-120	Aflatoxin G2	84.5	(ppm)	60-120
Aflatoxin G1	91.2	(ppm)	60-120	Aflatoxin B2	79.4	(ppm)	60-120
Aflatoxin B1	85.6	(ppm)	60-120				

LCS(C23B130-BS2)				Extracted: 02/22/23 11:53		Analyzed: 02/22/23 13:37	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Ochratoxin A	94.8	(ppm)	60-120	Aflatoxin G2	88.8	(ppm)	60-120
Aflatoxin G1	84.0	(ppm)	60-120	Aflatoxin B2	89.2	(ppm)	60-120
Aflatoxin B1	87.9	(ppm)	60-120				

LCS Dup(C23B130-BSD1)				Extracted: 02/22/23 11:53		Analyzed: 02/22/23 14:37	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Ochratoxin A	75.1	(ppm)	60-120	Aflatoxin G2	84.1	(ppm)	60-120
Aflatoxin G1	91.5	(ppm)	60-120	Aflatoxin B2	78.2	(ppm)	60-120
Aflatoxin B1	81.8	(ppm)	60-120				

LCS Dup(C23B130-BSD2)				Extracted: 02/22/23 11:53		Analyzed: 02/22/23 14:43	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Ochratoxin A	95.8	(ppm)	60-120	Aflatoxin G2	88.1	(ppm)	60-120
Aflatoxin G1	87.9	(ppm)	60-120	Aflatoxin B2	90.0	(ppm)	60-120
Aflatoxin B1	88.8	(ppm)	60-120				

Batch: C23B158 - LSOP #309 Heavy Metal Quantification

Blank(C23B158-BLK1)				Extracted: 02/28/23 11:18		Analyzed: 02/28/23 19:10	
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
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(C23B158-BLK2)				Extracted: 02/28/23 11:18		Analyzed: 02/28/23 19:18	
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
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



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Quality Control

Batch: C23B158 - LSOP #309 Heavy Metal Quantification (Continued)

LCS(C23B158-BS1)			Extracted: 02/28/23 11:18		Analyzed: 02/28/23 19:14		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Arsenic	98.1	0.0800 (ug/g)	80-115	Lead	111	0.160 (ug/g)	80-115
Mercury	101	0.0400 (ug/g)	80-115	Cadmium	99.1	0.0800 (ug/g)	80-115

LCS(C23B158-BS2)			Extracted: 02/28/23 11:18		Analyzed: 02/28/23 19:23		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Arsenic	97.2	0.0800 (ug/g)	80-115	Lead	101	0.160 (ug/g)	80-115
Mercury	100	0.0400 (ug/g)	80-115	Cadmium	98.6	0.0800 (ug/g)	80-115

Batch: P23B053 - SOP.T.40.031 Solvents

Blank(P23B053-BLK1)			Extracted: 02/23/23 09:18		Analyzed: 02/24/23 08:07		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	125 (ppm)	< LOQ	n-Butane	< LOQ	125 (ppm)	< LOQ
iso-Butane	< LOQ	125 (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	651 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	651 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	651 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	651 (ppm)	< LOQ	Ethyl benzene	< LOQ	651 (ppm)	< LOQ
2-Propanol (IPA)	< LOQ	700 (ppm)	< LOQ	Acetone	< LOQ	700 (ppm)	< LOQ
Acetonitrile	< LOQ	123 (ppm)	< LOQ	Benzene	< LOQ	0.6 (ppm)	< LOQ
Methanol	< LOQ	500 (ppm)	< LOQ	Propane	< LOQ	50 (ppm)	< LOQ
Toluene	< LOQ	267 (ppm)	< LOQ	Dichloromethane	< LOQ	180 (ppm)	< LOQ
1,4-Dioxane	< LOQ	114 (ppm)	< LOQ	2-Butanol	< LOQ	700 (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	700 (ppm)	< LOQ	Ethylene glycol	< LOQ	186 (ppm)	< LOQ
Ethylene oxide	< LOQ	15 (ppm)	< LOQ	Heptane	< LOQ	700 (ppm)	< LOQ
Isopropyl acetate	< LOQ	700 (ppm)	< LOQ	Tetrahydrofuran	< LOQ	216 (ppm)	< LOQ
Ethanol	< LOQ	700 (ppm)	< LOQ				

LCS(P23B053-BS1)			Extracted: 02/23/23 09:18		Analyzed: 02/24/23 08:07		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
n-Butane	71.7	125 (ppm)	60-120	iso-Butane	64.1	125 (ppm)	60-120
n-Hexane	102	87 (ppm)	60-120	2-Methylpentane	99.3	87 (ppm)	60-120
3-Methylpentane	101	87 (ppm)	60-120	2,2-Dimethylbutane	98.1	87 (ppm)	60-120
2,3-Dimethylbutane	102	87 (ppm)	60-120	n-Pentane	96.2	700 (ppm)	60-120

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Quality Control

Batch: P23B053 - SOP.T.40.031 Solvents (Continued)

LCS(P23B053-BS1)			Extracted: 02/23/23 09:18		Analyzed: 02/24/23 08:07		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
iso-Pentane	94.1	700 (ppm)	60-120	Neopentane	73.4	125 (ppm)	60-120
1,2-Dimethylbenzene	87.5	651 (ppm)	60-120	1,3-Dimethylbenzene	89.5	651 (ppm)	60-120
1,4-Dimethylbenzene	89.5	651 (ppm)	60-120	Ethyl benzene	90.9	651 (ppm)	60-120
2-Propanol (IPA)	105	700 (ppm)	60-120	Acetone	102	700 (ppm)	60-120
Acetonitrile	106	123 (ppm)	60-120	Benzene	99.7	0.6 (ppm)	60-120
Methanol	104	500 (ppm)	60-120	Propane	52.3	50 (ppm)	60-120
Toluene	98.6	267 (ppm)	60-120	Dichloromethane	103	180 (ppm)	60-120
1,4-Dioxane	99.8	114 (ppm)	60-120	2-Butanol	104	700 (ppm)	60-120
2-Ethoxyethanol	98.6	48 (ppm)	60-120	Cumene	93.0	21 (ppm)	60-120
Cyclohexane	98.5	1139 (ppm)	60-120	Ethyl acetate	104	1400 (ppm)	60-120
Ethyl ether	102	700 (ppm)	60-120	Ethylene glycol	93.7	186 (ppm)	60-120
Ethylene oxide	94.1	15 (ppm)	60-120	Heptane	102	700 (ppm)	60-120
Isopropyl acetate	104	700 (ppm)	60-120	Tetrahydrofuran	103	216 (ppm)	60-120

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