PINNACLE ANALYTICS

Potency Results

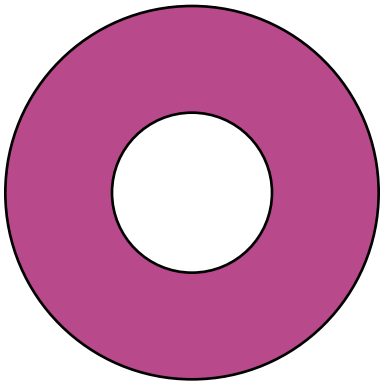
Sample Name: *Chonkerz*
Client: Alvin and Friends LLC
Client Batch ID:

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

Sample ID: rC-HS-424-E344-c
Matrix: Edible
Prep Analyst: Megan A.
Analysis Method: 0630322+1 H3 4-20-2022 #1.lcm
Sampling Method: N/A
Reference Method: JCB 2009: HPLC/DAD
Analysis Batch: 2-20-2024 H3 128, 205, 302, 434 Solids

Date Sampled: 2/13/2024
Date Reported: 2/21/2024
Client License: N/A
560 NE F St.
Grants Pass 97526
For R&D Purposes Only

Total THC (THCA*0.877+d9-THC)	<LOQ%
Total CBD (CBDA*0.877+CBD)	<LOQ%
Moisture Content	N/A
Total THC per Unit	<LOQ mg
Total CBD per Unit	<LOQ mg



Cannabinoid	% Weight	mg/unit
CBDVA	<LOQ	<LOQ
CBDV	<LOQ	<LOQ
CBDA*	<LOQ	<LOQ
CBGA	<LOQ	<LOQ
CBG	<LOQ	<LOQ
CBD*	<LOQ	<LOQ
THCV	<LOQ	<LOQ
CBN	0.0022	0.269
d9-THC*	<LOQ	<LOQ
d8-THC*	<LOQ	<LOQ
CBC	<LOQ	<LOQ
THCA*	<LOQ	<LOQ
Total Cannabinoids	0.0022	0.269

*ORELAP Accredited Analyte
Limit Of Quantitation: 0.0007%, analyte not measured

CBN

Kris Ford, PhD
Lab Director

PINNACLE ANALYTICS

Quality Control Results

Analyst: Jeff A.

Analysis Batch: *2-20-2024 H3 128, 205, 302, 434 Solids*

Pinnacle-Analytics.com
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Medford OR 97504
P:(541)300-8217

	Duplicate RPD		LCS % Recovery		Method Blank	
	HS-0-E357-b	Limit	C-SL-022024	Limits	C-SB-022024	Limit
CBDA	<LOQ%	30%	100.0%	90-110%	<LOQ/2	LOQ/2
CBD	<LOQ%	30%	104.0%	90-110%	<LOQ/2	LOQ/2
d9-THC	4.83%	30%	101.0%	90-110%	<LOQ/2	LOQ/2
d8-THC	<LOQ%	30%	N/A%	90-110%	<LOQ/2	LOQ/2
THCA	3.58%	10%	97.7%	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

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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Chonkerz

Pinnacle Analytics
010-101599328A3
Sample ID: C240250-01 **METRC Batch #:**
Matrix: Cannabinoid Product

Date Accepted: 02/14/24
Batch ID:
Batch Size:
Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 02/19/24 11:40
Analysis Method/SOP: LSOP #307

Date/Time Analyzed: 2/19/2024 5:26:11PM
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 instecticide
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
Flonicamid	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 insectide
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 - 2/21/2024

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Chonkerz

Pinnacle Analytics
010-101599328A3
Sample ID: C240250-01 **METRC Batch #:**
Matrix: Cannabinoid Product

Date Accepted: 02/14/24
Batch ID:
Batch Size:
Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 02/19/24 11:40
Analysis Method/SOP: LSOP #307

Date/Time Analyzed: 2/19/2024 5:26:11PM
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.

Carson Newkirk
Laboratory Manager - 2/21/2024

Certificate of Analysis

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Chonkerz

Pinnacle Analytics

010-101599328A3

Sample ID: C240250-01 **METRC Batch #:**

Matrix: Cannabinoid Product (solid)

Date Sampled: NA

Date Accepted: 02/14/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

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: 02/20/24 08:11

Date/Time Analyzed: 02/20/24 16:13

*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 - 2/21/2024

Certificate of Analysis

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Chonkerz

Pinnacle Analytics
010-101599328A3
Sample ID: C240250-01 **METRC Batch #:**
Matrix: Cannabinoid Product

Date Sampled: NA
Date Accepted: 02/14/24
Batch ID:
Batch Size:
Sampling Method/SOP: Client

Microbial Analysis

Date/Time Extracted: 02/16/24 09:18
Date/Time Analyzed: 2/19/2024 2:03:30PM
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

Carson Newkirk
Laboratory Manager - 2/21/2024

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Chonkerz

Pinnacle Analytics

010-101599328A3

Sample ID: C240250-01 **METRC Batch #:**

Matrix: Cannabinoid Product

Date Sampled: NA

Date Accepted: 02/14/24

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Heavy Metals Analysis

Date Extracted: 02/19/24 *Date Analyzed: 02/20/24* *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 - 2/21/2024

Certificate of Analysis

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Chonkerz

Pinnacle Analytics
010-101599328A3
Sample ID: C240250-01 **METRC Batch #:**
Matrix: Cannabinoid Product

Date Sampled: NA
Date Accepted: 02/14/24
Batch ID:
Batch Size:
Sampling Method/SOP: Client

Mycotoxins

Date Extracted: 02/16/24 *Date Analyzed: 02/17/24* *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

Carson Newkirk
Laboratory Manager - 2/21/2024

PREE Laboratories - South
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Quality Control

Batch: C24B131 - LSOP #310 Microbial Analysis

Blank(C24B131-BLK1) — **Extracted:** 02/16/24 09:18 — **Analyzed:** 02/19/24 14:03

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Absent	0.500 (/g)	< LOQ		Salmonella spp.	Absent	0.500 (/g)	< LOQ	

Reference(C24B131-SRM1) — **Extracted:** 02/16/24 09:18 — **Analyzed:** 02/19/24 14:03

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
STEC E. coli	Present	(/g)	100-100		Salmonella spp.	Present	(/g)	100-100	

Batch: C24B135 - LSOP #308 Mycotoxin Quantification by LCMS

Blank(C24B135-BLK1) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/16/24 22:28

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ	

Blank(C24B135-BLK2) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/16/24 22:42

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Ochratoxin A	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin G2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin G1	< LOQ	0.0100 (ppm)	< LOQ		Aflatoxin B2	< LOQ	0.0100 (ppm)	< LOQ	
Aflatoxin B1	< LOQ	0.0100 (ppm)	< LOQ		Total Aflatoxins	< LOQ	0.0100 (ppm)	< LOQ	

LCS(C24B135-BS1) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/16/24 22:35

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	124	(ppm)	60-120	HIGH BIAS	Aflatoxin G2	97.7	(ppm)	60-120	
Aflatoxin G1	104	(ppm)	60-120		Aflatoxin B2	87.1	(ppm)	60-120	
Aflatoxin B1	91.2	(ppm)	60-120						

LCS(C24B135-BS2) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/16/24 22:48

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	128	(ppm)	60-120	HIGH BIAS	Aflatoxin G2	98.7	(ppm)	60-120	
Aflatoxin G1	103	(ppm)	60-120		Aflatoxin B2	99.0	(ppm)	60-120	
Aflatoxin B1	104	(ppm)	60-120						

LCS Dup(C24B135-BSD1) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/17/24 01:08

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	121	(ppm)	60-120	HIGH BIAS	Aflatoxin G2	99.1	(ppm)	60-120	
Aflatoxin G1	95.8	(ppm)	60-120		Aflatoxin B2	88.5	(ppm)	60-120	
Aflatoxin B1	99.7	(ppm)	60-120						

Carson Newkirk
Laboratory Manager - 2/21/2024

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Quality Control

Batch: C24B135 - LSOP #308 Mycotoxin Quantification by LCMS (Continued)

LCS Dup(C24B135-BSD2) — **Extracted:** 02/16/24 10:26 — **Analyzed:** 02/17/24 01:14

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Ochratoxin A	136	(ppm)	60-120	HIGH BIAS	Aflatoxin G2	106	(ppm)	60-120	
Aflatoxin G1	106	(ppm)	60-120		Aflatoxin B2	104	(ppm)	60-120	
Aflatoxin B1	108	(ppm)	60-120						

Batch: C24B140 - LSOP #309 Heavy Metal Quantification

Blank(C24B140-BLK1) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 13:30

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Arsenic	< LOQ	0.0800 (ug/g)	< LOQ		Lead	< LOQ	0.160 (ug/g)	< LOQ	
Mercury	< LOQ	0.0400 (ug/g)	< LOQ		Cadmium	< LOQ	0.0800 (ug/g)	< LOQ	

Blank(C24B140-BLK2) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 13:38

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(C24B140-BS1) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 13:34

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	92.9	0.0800 (ug/g)	80-115		Lead	99.3	0.160 (ug/g)	80-115	
Mercury	80.2	0.0400 (ug/g)	80-115		Cadmium	90.2	0.0800 (ug/g)	80-115	

LCS(C24B140-BS2) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 13:43

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	94.1	0.0800 (ug/g)	80-115		Lead	92.6	0.160 (ug/g)	80-115	
Mercury	83.0	0.0400 (ug/g)	80-115		Cadmium	88.1	0.0800 (ug/g)	80-115	

LCS Dup(C24B140-BSD1) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 14:52

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	94.6	0.0800 (ug/g)	80-115		Lead	98.3	0.160 (ug/g)	80-115	
Mercury	88.6	0.0400 (ug/g)	80-115		Cadmium	91.7	0.0800 (ug/g)	80-115	

LCS Dup(C24B140-BSD2) — **Extracted:** 02/19/24 08:03 — **Analyzed:** 02/20/24 14:56

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Arsenic	92.5	0.0800 (ug/g)	80-115		Lead	96.0	0.160 (ug/g)	80-115	
Mercury	92.8	0.0400 (ug/g)	80-115		Cadmium	93.0	0.0800 (ug/g)	80-115	

Batch: C24B142 - LSOP #307 Pesticide Quantification by LCMS

Blank(C24B142-BLK1) — **Extracted:** 02/19/24 11:40 — **Analyzed:** 02/19/24 13:58

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Acephate	< LOQ	0.200 (ppm)	< LOQ						

Carson Newkirk
Laboratory Manager - 2/21/2024

PREE Laboratories - South
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Quality Control

Batch: C24B142 - LSOP #307 Pesticide Quantification by LCMS (Continued)

Blank(C24B142-BLK1) **Extracted:** 02/19/24 11:40 **Analyzed:** 02/19/24 13:58

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
Acequinocyl	< LOQ	0.500 (ppm)	< LOQ		Acetamiprid	< LOQ	0.100 (ppm)	< LOQ	
Aldicarb	< LOQ	0.200 (ppm)	< LOQ		Avermectin B1	< 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		Chlorfenapyr	< LOQ	0.500 (ppm)	< LOQ	
Chlorpyrifos	< LOQ	0.100 (ppm)	< LOQ		Clofentezine	< LOQ	0.100 (ppm)	< LOQ	
Cyfluthrin	< LOQ	0.500 (ppm)	< LOQ		Cypermethrin	< LOQ	0.500 (ppm)	< LOQ	
Daminozide	< LOQ	0.500 (ppm)	< LOQ		DDVP (Dichlorvos)	< LOQ	0.500 (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	0.500 (ppm)	< LOQ		Fludioxonil	< LOQ	0.200 (ppm)	< LOQ	
Hexythiazox	< LOQ	0.500 (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	
Methyl parathion	< LOQ	0.100 (ppm)	< LOQ		MGK-264 (Both)	< LOQ	0.100 (ppm)	< LOQ	
Myclobutanil	< LOQ	0.100 (ppm)	< LOQ		Naled	< LOQ	0.200 (ppm)	< LOQ	
Oxamyl	< LOQ	0.500 (ppm)	< LOQ		Paclobutrazol	< LOQ	0.200 (ppm)	< LOQ	
Permethrins (Both)	< LOQ	0.100 (ppm)	< LOQ		Phosmet	< LOQ	0.100 (ppm)	< LOQ	
Piperonyl butoxide	< LOQ	0.500 (ppm)	< LOQ		Prallethrin	< LOQ	0.100 (ppm)	< LOQ	
Propiconazole	< LOQ	0.200 (ppm)	< LOQ		Propoxur	< LOQ	0.100 (ppm)	< LOQ	
Pyrethrins (All 3)	< LOQ	0.500 (ppm)	< LOQ		Pyridaben	< LOQ	0.100 (ppm)	< LOQ	
Spinosad (Both)	< 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(C24B142-BS1) **Extracted:** 02/19/24 11:40 **Analyzed:** 02/19/24 14:13

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	103	(ppm)	60-120	HIGH BIAS	Acequinocyl	130	(ppm)	40-160	
Acetamiprid	111	(ppm)	60-120		Aldicarb	117	(ppm)	60-120	
Avermectin B1	126	(ppm)	50-150		Azoxystrobin	110	(ppm)	60-120	
Bifenazate	110	(ppm)	60-120		Bifenthrin	97.0	(ppm)	50-150	
Boscalid	95.5	(ppm)	60-120		Carbaryl	110	(ppm)	60-120	

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Quality Control

Batch: C24B142 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS(C24B142-BS1) **Extracted:** 02/19/24 11:40 **Analyzed:** 02/19/24 14:13

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Carbofuran	110	(ppm)	60-120		Chlorantraniliprole	93.1	(ppm)	60-120	
Chlorfenapyr	120	(ppm)	60-120		Chlorpyrifos	137	(ppm)	60-120	HIGH BIAS
Clofentezine	128	(ppm)	60-120	HIGH BIAS	Cyfluthrin	118	(ppm)	50-150	
Cypermethrin	126	(ppm)	50-150		Daminozide	109	(ppm)	60-120	
DDVP (Dichlorvos)	117	(ppm)	60-120		Diazinon	116	(ppm)	60-120	
Dimethoate	113	(ppm)	60-120		Ethoprophos	123	(ppm)	60-120	HIGH BIAS
Etofenprox	115	(ppm)	50-150		Etoxazole	107	(ppm)	60-120	
Fenoxycarb	131	(ppm)	60-120	HIGH BIAS	Fenpyroximate	133	(ppm)	60-120	HIGH BIAS
Fipronil	161	(ppm)	60-120	HIGH BIAS	Flonicamid	113	(ppm)	60-120	
Fludioxonil	109	(ppm)	50-150		Hexythiazox	130	(ppm)	60-120	HIGH BIAS
Imazalil	108	(ppm)	60-120		Imidacloprid	108	(ppm)	60-120	
Kresoxim-methyl	128	(ppm)	60-120	HIGH BIAS	Malathion	110	(ppm)	60-120	
Metalaxyl	102	(ppm)	60-120		Methiocarb	99.7	(ppm)	60-120	
Methomyl	114	(ppm)	60-120		Methyl parathion	130	(ppm)	50-150	
MGK I	131	(ppm)	50-150		MGK II	137	(ppm)	50-150	
Myclobutanil	111	(ppm)	60-120		Naled	91.7	(ppm)	50-150	
Oxamyl	117	(ppm)	60-120		Paclobutrazol	102	(ppm)	60-120	
Permethrins Cis	131	(ppm)	50-150		Permethrins Trans	112	(ppm)	50-150	
Phosmet	91.0	(ppm)	50-150		Piperonyl butoxide	119	(ppm)	60-120	
Prallethrin	117	(ppm)	60-120		Propiconazole	113	(ppm)	60-120	
Propoxur	113	(ppm)	60-120		Pyrethrins Cinerin	106	(ppm)	60-120	HIGH BIAS
Pyrethrins Jasmolin	96.5	(ppm)	60-120	HIGH BIAS	Pyrethrins Pyrethrin	136	(ppm)	60-120	HIGH BIAS
Pyridaben	109	(ppm)	50-150		Spinosyn A	115	(ppm)	50-150	
Spinosyn D	117	(ppm)	50-150		Spiromesifen	69.0	(ppm)	60-120	
Spirotetramat	107	(ppm)	60-120		Spiroxamine	96.5	(ppm)	60-120	
Tebuconazole	117	(ppm)	60-120		Thiacloprid	116	(ppm)	60-120	
Thiamethoxam	104	(ppm)	60-120		Trifloxystrobin	114	(ppm)	60-120	

LCS Dup(C24B142-BSD1) **Extracted:** 02/19/24 11:40 **Analyzed:** 02/19/24 19:23

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Acephate	111	(ppm)	60-120	HIGH BIAS	Acequinocyl	155	(ppm)	40-160	
Acetamiprid	113	(ppm)	60-120		Aldicarb	135	(ppm)	60-120	HIGH BIAS
Avermectin B1	144	(ppm)	50-150		Azoxystrobin	108	(ppm)	60-120	
Bifenazate	121	(ppm)	60-120	HIGH BIAS	Bifenthrin	105	(ppm)	50-150	
Boscalid	102	(ppm)	60-120		Carbaryl	105	(ppm)	60-120	
Carbofuran	109	(ppm)	60-120		Chlorantraniliprole	86.1	(ppm)	60-120	
Chlorfenapyr	94.7	(ppm)	60-120		Chlorpyrifos	143	(ppm)	60-120	HIGH BIAS

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Batch: C24B142 - LSOP #307 Pesticide Quantification by LCMS (Continued)

LCS Dup(C24B142-BSD1) **Extracted:** 02/19/24 11:40 **Analyzed:** 02/19/24 19:23

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
Clofentezine	130	(ppm)	60-120	HIGH BIAS	Cyfluthrin	111	(ppm)	50-150	
Cypermethrin	122	(ppm)	50-150		Daminozide	101	(ppm)	60-120	
DDVP (Dichlorvos)	102	(ppm)	60-120		Diazinon	110	(ppm)	60-120	
Dimethoate	119	(ppm)	60-120		Ethoprophos	118	(ppm)	60-120	HIGH BIAS
Etofenprox	115	(ppm)	50-150		Etoxazole	104	(ppm)	60-120	
Fenoxycarb	131	(ppm)	60-120	HIGH BIAS	Fenpyroximate	131	(ppm)	60-120	HIGH BIAS
Fipronil	139	(ppm)	60-120	HIGH BIAS	Flonicamid	109	(ppm)	60-120	
Fludioxonil	123	(ppm)	50-150		Hexythiazox	129	(ppm)	60-120	HIGH BIAS
Imazalil	101	(ppm)	60-120		Imidacloprid	108	(ppm)	60-120	
Kresoxim-methyl	139	(ppm)	60-120	HIGH BIAS	Malathion	119	(ppm)	60-120	
Metalaxyl	94.5	(ppm)	60-120		Methiocarb	92.7	(ppm)	60-120	
Methomyl	124	(ppm)	60-120	HIGH BIAS	Methyl parathion	53.9	(ppm)	50-150	MSDRPD
MGK I	130	(ppm)	50-150		MGK II	139	(ppm)	50-150	
Myclobutanil	110	(ppm)	60-120		Naled	89.7	(ppm)	50-150	
Oxamyl	117	(ppm)	60-120		Paclobutrazol	98.0	(ppm)	60-120	
Permethrins Cis	111	(ppm)	50-150		Permethrins Trans	109	(ppm)	50-150	
Phosmet	104	(ppm)	50-150		Piperonyl butoxide	123	(ppm)	60-120	HIGH BIAS
Prallethrin	118	(ppm)	60-120		Propiconazole	113	(ppm)	60-120	
Propoxur	119	(ppm)	60-120		Pyrethrins Cinerin	69.7	(ppm)	60-120	HIGH BIAS
Pyrethrins Jasmolin	91.5	(ppm)	60-120	HIGH BIAS	Pyrethrins Pyrethrin	139	(ppm)	60-120	HIGH BIAS
Pyridaben	109	(ppm)	50-150		Spinosyn A	108	(ppm)	50-150	
Spinosyn D	107	(ppm)	50-150		Spiromesifen	75.0	(ppm)	60-120	
Spirotetramat	109	(ppm)	60-120		Spiroxamine	94.5	(ppm)	60-120	
Tebuconazole	117	(ppm)	60-120		Thiacloprid	116	(ppm)	60-120	
Thiamethoxam	113	(ppm)	60-120		Trifloxystrobin	115	(ppm)	60-120	

Batch: C24B150 - LSOP #311 Residual Solvent Analysis by GCMS

Blank(C24B150-BLK1) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 09:57

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						

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Quality Control

Batch: C24B150 - LSOP #311 Residual Solvent Analysis by GCMS (Continued)

Blank(C24B150-BLK1) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 09:57

Analyte	Result	LOQ	Recovery Limits	Notes	Analyte	Result	LOQ	Recovery Limits	Notes
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						

LCS(C24B150-BS1) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 10:25

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane	81.6	(ppm)	60-120		iso-Butane	85.0	(ppm)	60-120	
n-Hexane	85.5	(ppm)	60-120		2-Methylpentane	83.3	(ppm)	60-120	
3-Methylpentane	87.1	(ppm)	60-120		2,2-Dimethylbutane	92.2	(ppm)	60-120	
2,3-Dimethylbutane	92.6	(ppm)	60-120		n-Pentane	95.7	(ppm)	60-120	
iso-Pentane	86.3	(ppm)	60-120		Neopentane	84.2	(ppm)	60-120	
Xylenes MP	88.3	(ppm)	60-120		2-Propanol (IPA)	104	(ppm)	60-120	
Ethyl benzene	86.8	(ppm)	60-120		Acetone	106	(ppm)	60-120	
Acetonitrile	104	(ppm)	60-120		Benzene	96.7	(ppm)	60-120	
Methanol	102	(ppm)	60-120		Propane	65.3	(ppm)	60-120	
Toluene	88.1	(ppm)	60-120		Dichloromethane	98.1	(ppm)	60-120	
1,4-Dioxane	88.6	(ppm)	60-120		2-Butanol	95.0	(ppm)	60-120	
2-Ethoxyethanol	92.9	(ppm)	60-120		Cumene	89.8	(ppm)	60-120	
Cyclohexane	86.1	(ppm)	60-120		Ethyl acetate	96.8	(ppm)	60-120	
Ethyl ether	95.0	(ppm)	60-120		Ethylene glycol	91.4	(ppm)	60-120	
Ethylene oxide	90.6	(ppm)	60-120		Heptane	85.6	(ppm)	60-120	
Isopropyl acetate	95.2	(ppm)	60-120		Tetrahydrofuran	91.8	(ppm)	60-120	

LCS(C24B150-BS2) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 11:23

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						

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Quality Control

Batch: C24B150 - LSOP #311 Residual Solvent Analysis by GCMS (Continued)

LCS(C24B150-BS2) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 11:23

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
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	94.9	(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						

LCS Dup(C24B150-BSD1) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 10:54

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
n-Butane	82.2	(ppm)	60-120		iso-Butane	86.6	(ppm)	60-120	
n-Hexane	90.9	(ppm)	60-120		2-Methylpentane	86.9	(ppm)	60-120	
3-Methylpentane	90.8	(ppm)	60-120		2,2-Dimethylbutane	94.0	(ppm)	60-120	
2,3-Dimethylbutane	95.0	(ppm)	60-120		n-Pentane	98.6	(ppm)	60-120	
iso-Pentane	88.9	(ppm)	60-120		Neopentane	86.0	(ppm)	60-120	
Xylenes MP	91.5	(ppm)	60-120		2-Propanol (IPA)	107	(ppm)	60-120	
Ethyl benzene	89.8	(ppm)	60-120		Acetone	109	(ppm)	60-120	
Acetonitrile	109	(ppm)	60-120		Benzene	96.5	(ppm)	60-120	
Methanol	105	(ppm)	60-120		Propane	65.9	(ppm)	60-120	
Toluene	91.2	(ppm)	60-120		Dichloromethane	101	(ppm)	60-120	
1,4-Dioxane	90.6	(ppm)	60-120		2-Butanol	105	(ppm)	60-120	
2-Ethoxyethanol	95.6	(ppm)	60-120		Cumene	92.2	(ppm)	60-120	
Cyclohexane	94.6	(ppm)	60-120		Ethyl acetate	105	(ppm)	60-120	
Ethyl ether	97.2	(ppm)	60-120		Ethylene glycol	95.3	(ppm)	60-120	
Ethylene oxide	92.8	(ppm)	60-120		Heptane	87.7	(ppm)	60-120	
Isopropyl acetate	97.1	(ppm)	60-120		Tetrahydrofuran	99.7	(ppm)	60-120	

LCS Dup(C24B150-BSD2) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 11:52

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						

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Batch: C24B150 - LSOP #311 Residual Solvent Analysis by GCMS (Continued)

LCS Dup(C24B150-BSD2) **Extracted:** 02/20/24 08:11 **Analyzed:** 02/20/24 11:52

Analyte	% Recovery	LOQ	Recovery Limits	Notes	Analyte	% Recovery	LOQ	Recovery Limits	Notes
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	96.7	(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

Item	Definition
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.

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