

Prepared For:

Client ID: ZAR D8 1000

Report Created: 12/10/2020

CC ID: 2012NCAL0418.1322

Sample Received: 12/09/2020

LIMS ID: 39436

Sample Collected:

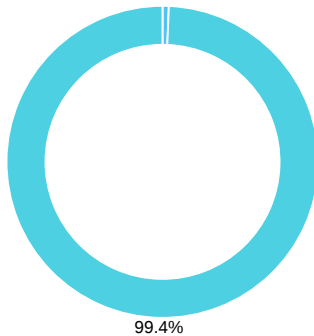
External Batch ID: 17K20149

Product Category: Other

CANNABINOID PROFILE by HPLC Analysis / NCAL SOP-104 / Date Tested - 12/10/2020; Analyst: MU

Cannabinoid Profile Visualization

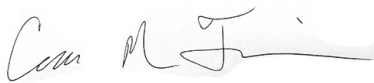
■ CBN ■ Δ8-THC



Analyte	LOQ	Result	Result
	%	%	mg/g
Tetrahydrocannabinolic acid (THCA)	0.0811	ND	ND
delta-9-Tetrahydrocannabinol (delta-9-THC)	0.0811	ND	ND
delta 8-Tetrahydrocannabinol (delta 8 THC)	0.0811	3.07	30.7
Tetrahydrocannabivarin (THCV)	0.0811	ND	ND
Cannabidiolic acid (CBDA)	0.0811	ND	ND
Cannabidiol (CBD)	0.0811	ND	ND
Cannabidivarin (CBDV)	0.0811	ND	ND
Cannabinol (CBN)	0.0811	0.0230	0.230
Cannabigerolic acid (CBGA)	0.0811	ND	ND
Cannabigerol (CBG)	0.0811	ND	ND
Cannabichromene (CBC)	0.0811	ND	ND
Total THC		ND	ND
Total CBD		ND	ND

NOTES

FINAL APPROVAL



APPROVED BY / DATE: Carolyn Friedrich, Ph.D Scientific Director - 12/10/2020

This product has been tested by North Coast Analytical Laboratories, LLC (North Coast). North Coast makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected levels of any analyte reported herein. "ND" indicates that the analyte was not detected to be present in the sample tested at levels at or above the limit of quantitation. Values reported relate only to the product tested. Samples not collected by North Coast are analyzed as they were received. This Certificate shall not be reproduced, except in full, without the written consent of NCAL. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4849.02.





Freddy Delta-8

Sample ID: G0G0337-01

Matrix: Hemp Extracts &

Test ID: 5003668

Source ID:

Date Sampled: 07/16/20

Date Accepted: 07/16/20

Results at a Glance

Total THC : <LOQ (0.6307%) %

Total CBD : <LOQ (0.1725%) %

delta 8-THC : 85.73 % PASS

Pesticides : PASS

Residual Solvent Analysis : PASS



Russell Kuhfeld

Russell Kuhfeld
Quality Officer - 7/21/2020

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Lab results apply to the sample as received, samples were not collected per OAR 333-007 requirements



Freddy Delta-8

Sample ID: G0G0337-01

Matrix: Hemp Extracts &

Test ID: 5003668

Source ID:

Date Sampled: 07/16/20

Date Accepted: 07/16/20

ZPE LLC

Potency Analysis

Date/Time Extracted: 07/17/20 11:47

Analysis Method/SOP: 215

Batch Identification: 2029056

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.6307	< LOQ	< LOQ	
Total CBD	0.1725	< LOQ	< LOQ	
THCA	0.2428	< LOQ	< LOQ	
delta 9-THC	0.6307	< LOQ	< LOQ	
delta 8-THC	0.3736	85.73	857.3	
Exo-THC	0.0868	< LOQ	< LOQ	
THCV	0.4207	< LOQ	< LOQ	
THCVA	0.1567	< LOQ	< LOQ	
CBD	0.1295	< LOQ	< LOQ	
CBDA	0.1725	< LOQ	< LOQ	
CBDV	0.4160	< LOQ	< LOQ	
CBDVA	0.1364	< LOQ	< LOQ	
CBN	0.2489	< LOQ	< LOQ	
CBG	0.0655	< LOQ	< LOQ	
CBGA	0.0655	< LOQ	< LOQ	
CBC	0.0746	< LOQ	< LOQ	
Total Cannabinoids		85.73	857.3	

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



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Freddy Delta-8

Sample ID: G0G0337-01

Matrix: Hemp Extracts &

Test ID: 5003668

Source ID:

Date Sampled: 07/16/20

Date Accepted: 07/16/20

ZPE LLC

Pesticide Analysis in ppm

Date/Time Extracted: 07/17/20 15:47

Analysis Method/SOP: 202

Analyte	Result	Action Level	LOD	LOQ	Units	Analyte	Result	Action Level	LOD	LOQ	Units
Abamectin	< LOQ	0.5		0.4	ppm	Acephate	< LOQ	0.4		0.06	ppm
Acequinocyl	< LOQ	2		0.4	ppm	Acetamiprid	< LOQ	0.2		0.06	ppm
Aldicarb	< LOQ	0.4		0.06	ppm	Azoxystrobin	< LOQ	0.2		0.06	ppm
Bifenazate	< LOQ	0.2		0.06	ppm	Bifenthrin	< LOQ	0.2		0.06	ppm
Boscalid	< LOQ	0.4		0.06	ppm	Carbaryl	< LOQ	0.2		0.06	ppm
Carbofuran	< LOQ	0.2		0.06	ppm	Chlorantraniliprole	< LOQ	0.2		0.06	ppm
Chlorfenapyr	< LOQ	1		0.4	ppm	Chlorpyrifos	< LOQ	0.2		0.06	ppm
Clofentezine	< LOQ	0.2		0.06	ppm	Cyfluthrin	< LOQ	1		0.06	ppm
Cypermethrin	< LOQ	1		0.4	ppm	Daminozide	< LOQ	1		0.06	ppm
DDVP (Dichlorvos)	< LOQ	1		0.06	ppm	Diazinon	< LOQ	0.2		0.06	ppm
Dimethoate	< LOQ	0.2		0.06	ppm	Ethoprophos	< LOQ	0.2		0.06	ppm
Etofenprox	< LOQ	0.4		0.06	ppm	Etoxazole	< LOQ	0.2		0.06	ppm
Fenoxycarb	< LOQ	0.2		0.06	ppm	Fenpyroximate	< LOQ	0.4		0.06	ppm
Fipronil	< LOQ	0.4		0.1	ppm	Flonicamid	< LOQ	1		0.06	ppm
Fludioxonil	< LOQ	0.4		0.06	ppm	Fludioxonil	< LOQ	0.4		0.06	ppm
Hexythiazox	< LOQ	1		0.1	ppm	Imazalil	< LOQ	0.2		0.06	ppm
Imidacloprid	< LOQ	0.4		0.06	ppm	Kresoxim-methyl	< LOQ	0.4		0.1	ppm
Malathion	< LOQ	0.2		0.06	ppm	Metalaxyl	< LOQ	0.2		0.06	ppm
Methiocarb	< LOQ	0.2		0.06	ppm	Methomyl	< LOQ	0.4		0.06	ppm
Methyl parathion	< LOQ	0.2		0.06	ppm	MGK-264	< LOQ	0.2		0.06	ppm
Myclobutanil	< LOQ	0.2		0.06	ppm	Naled	< LOQ	0.5		0.06	ppm
Oxamyl	< LOQ	1		0.06	ppm	Paclobutrazol	< LOQ	0.4		0.06	ppm
Permethrins	< LOQ	0.2		0.06	ppm	Phosmet	< LOQ	0.2		0.06	ppm
Piperonyl butoxide	< LOQ	2		0.9	ppm	Prallethrin	< LOQ	0.2		0.06	ppm
Propiconazole	< LOQ	0.4		0.06	ppm	Propoxur	< LOQ	0.2		0.06	ppm
Pyrethrins	< LOQ	1		0.06	ppm	Pyridaben	< LOQ	0.2		0.06	ppm
Spinosad	< LOQ	0.2		0.06	ppm	Spiromesifen	< LOQ	0.2		0.06	ppm
Spirotetramat	< LOQ	0.2		0.06	ppm	Spiroxamine	< LOQ	0.4		0.06	ppm
Tebuconazole	< LOQ	0.4		0.06	ppm	Thiacloprid	< LOQ	0.2		0.06	ppm
Thiamethoxam	< LOQ	0.2		0.06	ppm	Trifloxystrobin	< LOQ	0.2		0.06	ppm

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted Red.



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Freddy Delta-8

Sample ID: G0G0337-01

Matrix: Hemp Extracts &

Test ID: 5003668

Source ID:

Date Sampled: 07/16/20

Date Accepted: 07/16/20

ZPE LLC

Residual Solvents

Date/Time Extracted: 07/20/20 08:04

Analysis Method/SOP: 205

Analyte	Result	Action Level	LOD	LOQ	Units
1,4-Dioxane	< LOQ	380		50.00	ppm
2-Butanol	< LOQ	5000		1000	ppm
2-Ethoxyethanol	< LOQ	160		80.00	ppm
2-Propanol (IPA)	< LOQ	5000		1000	ppm
Acetone	< LOQ	5000		1000	ppm
Acetonitrile	< LOQ	410		50.00	ppm
Benzene	< LOQ	2		1.000	ppm
Butanes	< LOQ	5000		1000	ppm
Cumene	< LOQ	70		35.00	ppm
Cyclohexane	< LOQ	3880		50.00	ppm
Dichloromethane	< LOQ	600		50.00	ppm
Ethyl acetate	< LOQ	5000		1000	ppm
Ethyl benzene	< LOQ	2170		35.00	ppm
Ethyl ether	< LOQ	5000		1000	ppm
Ethylene glycol	< LOQ	620		310.0	ppm
Ethylene oxide	< LOQ	50		25.00	ppm
Heptane	< LOQ	5000		1000	ppm
Hexanes	< LOQ	290		50.00	ppm
Isopropyl acetate	< LOQ	5000		1000	ppm
Methanol	< LOQ	3000		1000	ppm
Pentanes	< LOQ	5000		1000	ppm
Propane	< LOQ	5000		1000	ppm
Tetrahydrofuran	< LOQ	720		50.00	ppm
Toluene	616.8	890		50.00	ppm
Xylenes	< LOQ	2170		50.00	ppm

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Quality Control Potency

Batch: 2029056 - 215-Concentrates

Blank(2029056-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0607	%		07/17/20 11:47	07/17/20 20:33
delta 9-THC	< LOQ	0.1577	%		07/17/20 11:47	07/17/20 20:33
delta 8-THC	< LOQ	0.0934	%		07/17/20 11:47	07/17/20 20:33
Exo-THC	< LOQ	0.0217	%		07/17/20 11:47	07/17/20 20:33
THCV	< LOQ	0.1052	%		07/17/20 11:47	07/17/20 20:33
THCVA	< LOQ	0.0392	%		07/17/20 11:47	07/17/20 20:33
CBD	< LOQ	0.0324	%		07/17/20 11:47	07/17/20 20:33
CBDA	< LOQ	0.0431	%		07/17/20 11:47	07/17/20 20:33
CBDV	< LOQ	0.1040	%		07/17/20 11:47	07/17/20 20:33
CBDVA	< LOQ	0.0341	%		07/17/20 11:47	07/17/20 20:33
CBN	< LOQ	0.0622	%		07/17/20 11:47	07/17/20 20:33
CBG	< LOQ	0.0164	%		07/17/20 11:47	07/17/20 20:33
CBGA	< LOQ	0.0164	%		07/17/20 11:47	07/17/20 20:33
CBC	< LOQ	0.0186	%		07/17/20 11:47	07/17/20 20:33

Reference(2029056-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	110	0.0300	%	80-120	07/17/20 11:47	07/17/20 20:56
delta 9-THC	110	0.0780	%	80-120	07/17/20 11:47	07/17/20 20:56
CBD	108	0.0160	%	80-120	07/17/20 11:47	07/17/20 20:56
CBDA	105	0.0213	%	80-120	07/17/20 11:47	07/17/20 20:56

Pesticide Analysis

Batch: 2029060 - 202

Blank(2029060-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.4	ppm		07/17/20 15:47	07/18/20 17:41
DDVP (Dichlorvos)	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Acephate	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Acequinocyl	< LOQ	0.4	ppm		07/17/20 15:47	07/18/20 17:41
Acetamiprid	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Aldicarb	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Azoxystrobin	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Bifenazate	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Bifenthrin	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Boscalid	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Carbaryl	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Carbofuran	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Chlorantraniliprole	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41



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Quality Control Pesticide Analysis (Continued)

Batch: 2029060 - 202 (Continued)

Blank(2029060-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Chlorfenapyr	< LOQ	0.4	ppm		07/17/20 15:47	07/18/20 18:17
Chlorpyrifos	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Clofentezine	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Daminozide	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Cyfluthrin	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Diazinon	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Cypermethrin	< LOQ	0.4	ppm		07/17/20 15:47	07/18/20 18:17
Dimethoate	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Ethoprophos	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Etofenprox	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Etoxazole	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Fenoxycarb	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Fenpyroximate	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Flonicamid	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Fludioxonil	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Hexythiazox	< LOQ	0.1	ppm		07/17/20 15:47	07/18/20 17:41
Imazalil	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Fipronil	< LOQ	0.1	ppm		07/17/20 15:47	07/18/20 18:17
Imidacloprid	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Fludioxonil	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Metalaxyl	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Methiocarb	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Methomyl	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Myclobutanil	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Kresoxim-methyl	< LOQ	0.1	ppm		07/17/20 15:47	07/18/20 18:17
Naled	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Malathion	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Oxamyl	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Paclobutrazol	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Methyl parathion	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
MGK-264	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Phosmet	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Piperonyl butoxide	< LOQ	0.9	ppm		07/17/20 15:47	07/18/20 17:41
Prallethrin	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Propoxur	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Permethrins	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Pyrethrins	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Pyridaben	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41



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Quality Control Pesticide Analysis (Continued)

Batch: 2029060 - 202 (Continued)

Blank(2029060-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Propiconazole	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 18:17
Spinosad	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Spiromesifen	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Spirotetramat	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Spiroxamine	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Tebuconazole	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Thiacloprid	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Thiamethoxam	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41
Trifloxystrobin	< LOQ	0.06	ppm		07/17/20 15:47	07/18/20 17:41

LCS(2029060-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	86.3	0.4	ppm	70-130	07/17/20 15:47	07/18/20 18:05
DDVP (Dichlorvos)	121	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Acephate	75.8	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Acequinocyl	33.9	0.4	ppm	5.57-33.8	07/17/20 15:47	07/18/20 18:05
Acetamiprid	95.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Aldicarb	95.8	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Azoxystrobin	102	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Bifenazate	103	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Bifenthrin	104	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Boscalid	98.2	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Carbaryl	92.3	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Carbofuran	94.6	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Chlorantraniliprole	82.9	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Chlorfenapyr	85.4	0.4	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Chlorpyrifos	95.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Clofentezine	12.3	0.06	ppm	14.4-62.3	07/17/20 15:47	07/18/20 18:05
Daminozide	459	0.06	ppm	0-100	07/17/20 15:47	07/18/20 18:05
Cyfluthrin	107	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Diazinon	94.0	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Cypermethrin	97.7	0.4	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Dimethoate	97.2	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Ethoprophos	95.9	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Etofenprox	98.8	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Etoxazole	103	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Fenoxycarb	96.8	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Fenpyroximate	59.5	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Flonicamid	50.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05



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Quality Control Pesticide Analysis (Continued)

Batch: 2029060 - 202 (Continued)

LCS(2029060-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Fludioxonil	104	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Hexythiazox	88.1	0.1	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Imazalil	75.6	0.06	ppm	57.9-96.4	07/17/20 15:47	07/18/20 18:05
Fipronil	102	0.1	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Imidacloprid	88.2	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Fludioxonil	100	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Metalaxyl	100	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Methiocarb	93.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Methomyl	98.2	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Myclobutanil	96.8	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Kresoxim-methyl	115	0.1	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Naled	97.4	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Malathion	102	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Oxamyl	98.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Paclobutrazol	98.0	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Methyl parathion	90.9	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
MGK-264	113	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Phosmet	98.9	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Piperonyl butoxide	121	0.9	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Prallethrin	103	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Propoxur	93.0	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Permethrins	109	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Pyrethrins	301	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Pyridaben	103	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Propiconazole	95.4	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:39
Spinosad	90.5	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Spiromesifen	96.9	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Spirotetramat	92.3	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Spiroxamine	104	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Tebuconazole	89.7	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Thiacloprid	94.2	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Thiamethoxam	97.1	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05
Trifloxystrobin	101	0.06	ppm	70-130	07/17/20 15:47	07/18/20 18:05

Solvent Analysis

Batch: 2030003 - 205

Blank(2030003-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed



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Quality Officer - 7/21/2020

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Quality Control Solvent Analysis (Continued)

Batch: 2030003 - 205 (Continued)

Blank(2030003-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Acetonitrile	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
Benzene	< LOQ	1.000	ppm		07/20/20 08:04	07/21/20 07:56
Butanes	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
2-Butanol	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Cumene	< LOQ	35.00	ppm		07/20/20 08:04	07/21/20 07:56
Cyclohexane	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
Dichloromethane	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
1,4-Dioxane	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
2-Ethoxyethanol	< LOQ	80.00	ppm		07/20/20 08:04	07/21/20 07:56
Ethyl acetate	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Ethyl benzene	< LOQ	35.00	ppm		07/20/20 08:04	07/21/20 07:56
Ethylene glycol	< LOQ	310.0	ppm		07/20/20 08:04	07/21/20 07:56
Ethylene oxide	< LOQ	25.00	ppm		07/20/20 08:04	07/21/20 07:56
Ethyl ether	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Heptane	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Hexanes	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
Isopropyl acetate	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Methanol	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Pentanes	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Propane	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
2-Propanol (IPA)	< LOQ	1000	ppm		07/20/20 08:04	07/21/20 07:56
Tetrahydrofuran	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
Toluene	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56
Xylenes	< LOQ	50.00	ppm		07/20/20 08:04	07/21/20 07:56

LCS(2030003-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	75.3	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Acetonitrile	74.3	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Benzene	69.2	1.000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
n-Butane	88.9	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Butanes	85.5	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
2-Butanol	71.4	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Cumene	76.3	35.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Cyclohexane	77.4	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Dichloromethane	75.1	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
1,4-Dioxane	74.6	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
2-Ethoxyethanol	73.6	80.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36



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Quality Control Solvent Analysis (Continued)

Batch: 2030003 - 205 (Continued)

LCS(2030003-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl acetate	75.6	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Ethyl benzene	76.1	35.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Ethylene glycol	106	310.0	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Ethylene oxide	72.6	25.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Ethyl ether	77.3	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Heptane	77.5	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
n-Hexane	79.0	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Hexanes	63.5	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
iso-Butane	82.1	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Isopropyl acetate	73.5	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
iso-Pentane	79.4	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Methanol	99.0	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
2-Methylpentane	79.6	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
3-Methylpentane	79.1	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
neo-Pentane	74.6	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
n-Pentane	80.3	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Pentanes	78.1	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Propane	116	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
2-Propanol (IPA)	80.4	1000	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Tetrahydrofuran	74.9	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36
Toluene	75.9	50.00	ppm	70-130	07/20/20 08:04	07/20/20 18:36



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