



Huckleberry

Sample ID: G0C0051-11 Matrix: Extracts & Concentrates
Test ID: 1A4010300015A7D000005974
Source ID: 1A4010300015A7D000005951
Date Sampled: 03/04/20 Date Accepted: 03/04/20

Oregon Natural Roots LLC

Results at a Glance

Total THC : 71.21 %

Total CBD : <LOQ (0.0348%) %

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Terpenes : 2.960 % PASS



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Russell Kuhfeld

Russell Kuhfeld
Quality Officer - 3/9/2020

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Oregon Natural Roots LLC

Potency Analysis

Date/Time Extracted: 03/04/20 15:43

Analysis Method/SOP: 215

Batch Identification: 2010038

Cannabinoids	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile												
Total THC	0.1273	71.21	712.1	<table border="1"> <tr><td>delta 9-THC</td><td>71.2</td></tr> <tr><td>THCV</td><td>0.4</td></tr> <tr><td>CBN</td><td>0.7</td></tr> <tr><td>CBG</td><td>0.8</td></tr> <tr><td>CBC</td><td>6.6</td></tr> <tr><td>Total</td><td>79.8</td></tr> </table>	delta 9-THC	71.2	THCV	0.4	CBN	0.7	CBG	0.8	CBC	6.6	Total	79.8
delta 9-THC	71.2															
THCV	0.4															
CBN	0.7															
CBG	0.8															
CBC	6.6															
Total	79.8															
Total CBD	0.0348	< LOQ	< LOQ													
THCA	0.0490	< LOQ	< LOQ													
delta 9-THC	0.1273	71.21	712.1													
delta 8-THC	0.0754	< LOQ	< LOQ													
Exo-THC	0.0175	< LOQ	< LOQ													
THCV	0.0849	0.4110	4.11													
THCVA	0.0316	< LOQ	< LOQ													
CBD	0.0261	< LOQ	< LOQ													
CBDA	0.0348	< LOQ	< LOQ													
CBDV	0.0840	< LOQ	< LOQ													
CBDVA	0.0276	< LOQ	< LOQ													
CBN	0.0503	0.6896	6.896													
CBG	0.0132	0.8077	8.077													
CBGA	0.0132	< LOQ	< LOQ													
CBC	0.1506	6.641	66.41													
Total Cannabinoids		79.76	797.6													

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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Date Sampled: 03/04/20 Date Accepted: 03/04/20

Oregon Natural Roots LLC

Terpene Analysis					
Date/Time Extracted: 03/04/20 15:43			Analysis Method/SOP: 204		
Monoterpenes	%	mg/g	Monoterpenes	%	mg/g
Camphene	< LOQ	< LOQ	Camphor	< LOQ	< LOQ
3-Carene	< LOQ	< LOQ	alpha-Cedrene	< LOQ	< LOQ
Cedrol	< LOQ	< LOQ	Endo-fenchyl alcohol	0.07540	0.754
Eucalyptol	< LOQ	< LOQ	Fenchone	< LOQ	< LOQ
Geraniol	< LOQ	< LOQ	Geranyl acetate	< LOQ	< LOQ
Hexahydrothymol	< LOQ	< LOQ	Isoborneol	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ	Limonene	0.3955	3.955
Linalool	0.07814	0.7814	p-Mentha-1,5-diene	< LOQ	< LOQ
beta-Myrcene	0.09668	0.9668	alpha-Pinene	0.08072	0.8072
beta-Pinene	0.05489	0.5489	Pulegone	< LOQ	< LOQ
Sabinene	< LOQ	< LOQ	Sabinene hydrate	< LOQ	< LOQ
gamma-Terpinene	< LOQ	< LOQ	alpha-Terpinene	< LOQ	< LOQ
Terpineol	0.03852	0.3852	Terpinolene	< LOQ	< LOQ
B Y-Terpineol	< LOQ	< LOQ	Nerol	< LOQ	< LOQ
A-Terpineol	0.06114	0.6114	Borneol	< LOQ	< LOQ
Ocimene isomer II	0.06901	0.6901	Ocimene isomer I	< LOQ	< LOQ
Sesquiterpenes	%	mg/g	Sesquiterpenes	%	mg/g
alpha-Bisabolol	0.06530	0.653	beta-Caryophyllene	1.099	10.99
Caryophyllene Oxide	0.06971	0.6971	Guaiol	< LOQ	< LOQ
alpha-Humulene	0.2819	2.819	trans-Nerolidol	< LOQ	< LOQ
Valencene	< LOQ	< LOQ	cis-Nerolidol	0.5329	5.329
Total Terpenes	2.960	29.6			

<LOQ - Results below the Limit of Quantitation - Terpenes profile/analysis are not accredited to ORELAP TNI 2009 Quality Standards.



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Test ID: 1A4010300015A7D000005974

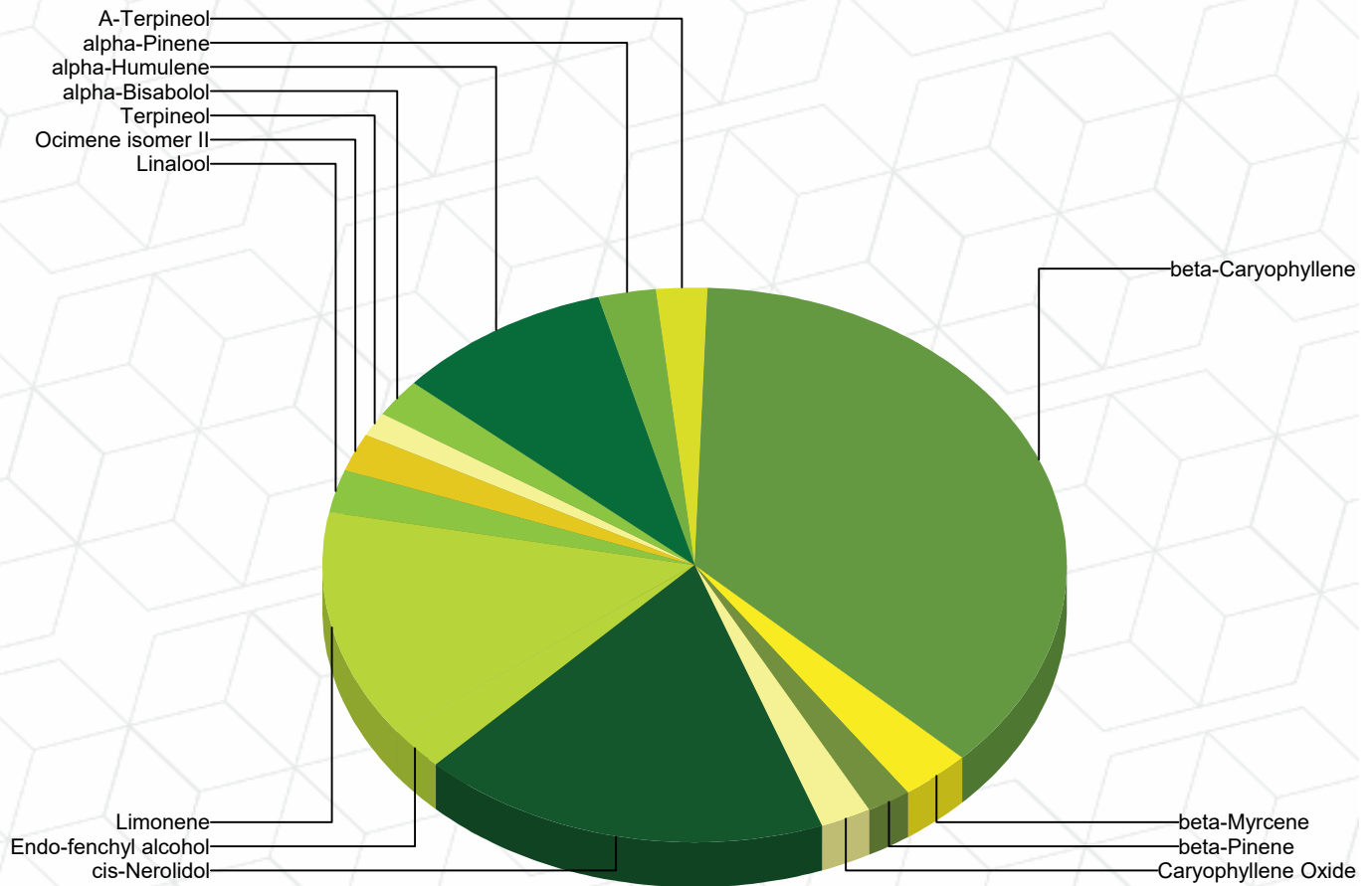
Source ID: 1A4010300015A7D000005951

Date Sampled: 03/04/20

Date Accepted: 03/04/20

Oregon Natural Roots LLC

Terpene Profile



Percentage of Total Terpenes Identified



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Source ID: 1A4010300015A7D000005951

Date Sampled: 03/04/20

Date Accepted: 03/04/20

Oregon Natural Roots LLC

Pesticide Analysis in ppm

Date/Time Extracted: 03/06/20 12:07
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	Etoazole	< 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	Malathion	< LOQ	0.2		0.06	ppm
Metaxyl	< 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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Date Sampled: 03/04/20

Date Accepted: 03/04/20

Oregon Natural Roots LLC

Residual Solvents

Date/Time Extracted: 03/04/20 15:33

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	< LOQ	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: 2010038 - 215-Concentrates

Blank(2010038-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0490	%		03/04/20 15:43	03/05/20 00:13
delta 9-THC	< LOQ	0.1273	%		03/04/20 15:43	03/05/20 00:13
delta 8-THC	< LOQ	0.0754	%		03/04/20 15:43	03/05/20 00:13
Exo-THC	< LOQ	0.0175	%		03/04/20 15:43	03/05/20 00:13
THCV	< LOQ	0.0849	%		03/04/20 15:43	03/05/20 00:13
THCVA	< LOQ	0.0316	%		03/04/20 15:43	03/05/20 00:13
CBD	< LOQ	0.0261	%		03/04/20 15:43	03/05/20 00:13
CBDA	< LOQ	0.0348	%		03/04/20 15:43	03/05/20 00:13
CBDV	< LOQ	0.0840	%		03/04/20 15:43	03/05/20 00:13
CBDVA	< LOQ	0.0276	%		03/04/20 15:43	03/05/20 00:13
CBN	< LOQ	0.0503	%		03/04/20 15:43	03/05/20 00:13
CBG	< LOQ	0.0132	%		03/04/20 15:43	03/05/20 00:13
CBGA	< LOQ	0.0132	%		03/04/20 15:43	03/05/20 00:13
CBC	< LOQ	0.1506	%		03/04/20 15:43	03/05/20 00:13

Reference(2010038-SRM1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	101	0.0236	%	80-120	03/04/20 15:43	03/05/20 00:35
delta 9-THC	107	0.0613	%	80-120	03/04/20 15:43	03/05/20 00:35
CBD	103	0.0126	%	80-120	03/04/20 15:43	03/05/20 00:35
CBDA	104	0.0168	%	80-120	03/04/20 15:43	03/05/20 00:35

Pesticide Analysis

Batch: 2010043 - 202

Blank(2010043-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.4	ppm		03/06/20 12:07	03/08/20 21:39
DDVP (Dichlorvos)	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Acephate	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Acequinocyl	< LOQ	0.4	ppm		03/06/20 12:07	03/08/20 21:39
Acetamiprid	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Aldicarb	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Azoxystrobin	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Bifenazate	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Bifenthrin	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Boscalid	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Carbaryl	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Carbofuran	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Chlorantraniliprole	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39



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Quality Control Pesticide Analysis (Continued)

Batch: 2010043 - 202 (Continued)

Blank(2010043-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Chlorfenapyr	< LOQ	0.4	ppm		03/06/20 12:07	03/08/20 19:48
Chlorpyrifos	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Clofentezine	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Daminozide	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Cyfluthrin	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Diazinon	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Cypermethrin	< LOQ	0.4	ppm		03/06/20 12:07	03/08/20 19:48
Dimethoate	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Ethoprophos	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Etofenprox	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Etoxazole	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fenoxycarb	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fenpyroximate	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fonicamid	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fludioxonil	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Hexythiazox	< LOQ	0.1	ppm		03/06/20 12:07	03/08/20 21:39
Imazalil	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fipronil	< LOQ	0.1	ppm		03/06/20 12:07	03/08/20 19:48
Imidacloprid	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Malathion	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Fludioxonil	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Metalaxyl	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Methiocarb	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Methomyl	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Myclobutanil	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Kresoxim-methyl	< LOQ	0.1	ppm		03/06/20 12:07	03/08/20 19:48
Naled	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Malathion	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Oxamyl	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Paclobutrazol	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Methyl parathion	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
MGK-264	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Phosmet	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Piperonyl butoxide	< LOQ	0.8	ppm		03/06/20 12:07	03/08/20 21:39
Prallethrin	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Propoxur	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Permethrins	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Pyrethrins	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39



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Quality Control Pesticide Analysis (Continued)

Batch: 2010043 - 202 (Continued)

Blank(2010043-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Pyridaben	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Propiconazole	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 19:48
Spinosad	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Spiromesifen	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Spirotetramat	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Spiroxamine	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Tebuconazole	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Thiacloprid	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Thiamethoxam	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39
Trifloxystrobin	< LOQ	0.05	ppm		03/06/20 12:07	03/08/20 21:39

LCS(2010043-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	68.0	0.4	ppm	70-130	03/06/20 12:07	03/08/20 22:02
DDVP (Dichlorvos)	98.5	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Acephate	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Acequinocyl	38.2	0.4	ppm	5.57-33.8	03/06/20 12:07	03/08/20 22:02
Acetamiprid	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Aldicarb	110	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Azoxystrobin	109	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Bifenazate	120	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Bifenthrin	97.5	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Boscalid	109	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Carbaryl	105	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Carbofuran	109	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Chlorantraniliprole	221	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Chlorfenapyr	117	0.4	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Chlorpyrifos	100	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Clofentezine	22.1	0.05	ppm	14.4-62.3	03/06/20 12:07	03/08/20 22:02
Daminozide	465	0.05	ppm	0-100	03/06/20 12:07	03/08/20 22:02
Cyfluthrin	97.3	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Diazinon	105	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Cypermethrin	123	0.4	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Dimethoate	108	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Ethoprophos	107	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Etofenprox	99.5	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Etoxazole	108	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Fenoxycarb	117	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Fenpyroximate	77.4	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02



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Quality Control Pesticide Analysis (Continued)

Batch: 2010043 - 202 (Continued)

LCS(2010043-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Fonicamid	111	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Fludioxonil	104	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Hexythiazox	110	0.1	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Imazalil	90.1	0.05	ppm	57.9-96.4	03/06/20 12:07	03/08/20 22:02
Fipronil	117	0.1	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Imidacloprid	116	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Malathion	103	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Fludioxonil	114	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Metalaxyl	109	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Methiocarb	106	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Methomyl	111	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Myclobutanil	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Kresoxim-methyl	110	0.1	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Naled	106	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Malathion	104	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Oxamyl	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Paclobutrazol	106	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Methyl parathion	104	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
MGK-264	111	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Phosmet	106	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Piperonyl butoxide	97.7	0.8	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Prallethrin	110	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Propoxur	110	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Permethrins	105	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Pyrethrins	61.8	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Pyridaben	103	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Propiconazole	98.2	0.05	ppm	70-130	03/06/20 12:07	03/08/20 20:11
Spinosad	80.9	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Spiromesifen	113	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Spirotetramat	117	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Spiroxamine	104	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Tebuconazole	96.3	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Thiacloprid	108	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Thiamethoxam	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02
Trifloxystrobin	112	0.05	ppm	70-130	03/06/20 12:07	03/08/20 22:02

Solvent Analysis

Batch: 2010036 - 205



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Quality Control Solvent Analysis (Continued)

Batch: 2010036 - 205 (Continued)

Blank(2010036-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Acetonitrile	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
Benzene	< LOQ	1.000	ppm		03/04/20 15:33	03/06/20 08:59
Butanes	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
2-Butanol	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Cumene	< LOQ	35.00	ppm		03/04/20 15:33	03/06/20 08:59
Cyclohexane	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
Dichloromethane	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
1,4-Dioxane	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
2-Ethoxyethanol	< LOQ	80.00	ppm		03/04/20 15:33	03/06/20 08:59
Ethyl acetate	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Ethyl benzene	< LOQ	35.00	ppm		03/04/20 15:33	03/06/20 08:59
Ethylene glycol	< LOQ	310.0	ppm		03/04/20 15:33	03/06/20 08:59
Ethylene oxide	< LOQ	25.00	ppm		03/04/20 15:33	03/06/20 08:59
Ethyl ether	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Heptane	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Hexanes	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
Isopropyl acetate	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Methanol	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Pentanes	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Propane	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
2-Propanol (IPA)	< LOQ	1000	ppm		03/04/20 15:33	03/06/20 08:59
Tetrahydrofuran	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
Toluene	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59
Xylenes	< LOQ	50.00	ppm		03/04/20 15:33	03/06/20 08:59

LCS(2010036-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	107	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Acetonitrile	109	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Benzene		1.000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
n-Butane	103	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Butanes	102	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
2-Butanol	108	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Cumene	127	35.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Cyclohexane	110	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Dichloromethane	113	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
1,4-Dioxane	112	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
2-Ethoxyethanol	111	80.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11



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Quality Control Solvent Analysis (Continued)

Batch: 2010036 - 205 (Continued)

LCS(2010036-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl acetate	109	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Ethyl benzene	123	35.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Ethylene glycol	103	310.0	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Ethylene oxide	103	25.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Ethyl ether	116	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Heptane	109	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
n-Hexane	107	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Hexanes	107	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
iso-Butane	102	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Isopropyl acetate	109	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
iso-Pentane	106	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Methanol	80.7	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
2-Methylpentane	107	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
3-Methylpentane	108	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
neo-Pentane	103	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
n-Pentane	113	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Pentanes	107	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Propane	94.0	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
2-Propanol (IPA)	109	1000	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Tetrahydrofuran	109	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11
Toluene	111	50.00	ppm	70-130	03/04/20 15:33	03/06/20 07:11

Terpene Analysis

Batch: 2010038 - 215-Concentrates

Blank(2010038-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
alpha-Bisabolol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Camphene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Camphor	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
3-Carene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
beta-Caryophyllene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Caryophyllene Oxide	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
alpha-Cedrene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Cedrol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Endo-fenchyl alcohol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Eucalyptol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Fenchone	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Geraniol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51



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Quality Control Terpene Analysis (Continued)

Batch: 2010038 - 215-Concentrates (Continued)

Blank(2010038-BLK2)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Geranyl acetate	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Guaiol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Hexahydrothymol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
alpha-Humulene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Isoborneol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Isopulegol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Limonene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Linalool	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
p-Mentha-1,5-diene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
beta-Myrcene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
trans-Nerolidol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
alpha-Pinene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
beta-Pinene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Pulegone	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Sabinene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Sabinene hydrate	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
gamma-Terpinene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
alpha-Terpinene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Terpineol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Terpinolene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Valencene	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
B Y-Terpineol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Nerol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
A-Terpineol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
cis-Nerolidol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Borneol	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Ocimene isomer II	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51
Ocimene isomer I	< LOQ	4.000E-4	%		03/04/20 15:43	03/05/20 19:51

Reference(2010038-SRM2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
beta-Caryophyllene	87.2	1.927E-4	%	70-130	03/04/20 15:43	03/05/20 20:33
alpha-Humulene	93.4	1.927E-4	%	70-130	03/04/20 15:43	03/05/20 20:33
Limonene	99.6	1.927E-4	%	70-130	03/04/20 15:43	03/05/20 20:33
beta-Myrcene	98.2	1.927E-4	%	70-130	03/04/20 15:43	03/05/20 20:33
Terpinolene	101	1.927E-4	%	70-130	03/04/20 15:43	03/05/20 20:33



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