



12025 NE Marx St. Portland, OR 97220
503-253-3511 / www.greenleaflab.org

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Harle TSU CO2 Extracts

OM Extracts

Sample ID: G8D0058-01

Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

Results at a Glance

Total THC : 8.462 %

Total CBD : 50.04 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Terpenes : 2.996 % PASS

Eric Wendt
Chief Science Officer - 4/12/2018



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Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

OM Extracts

Sample ID: G8D0058-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000001172

Source RFID: 1A4010300014ADD000000886

Potency Analysis

Date/Time Extracted: 04/06/18 12:48

Analysis Method/SOP: 215

Date/Time Analyzed: 04/07/18 11:19

Batch Identification: 1814039

Cannabinoids (% weight)	Decarboxylated* %	Cannabinoids Profile										
Total THC ((THCA*0.877)+Δ9)	8.462	<table border="1"> <tr><td>THCA</td><td>4.2</td></tr> <tr><td>delta 9-THC</td><td>4.7</td></tr> <tr><td>CBDA</td><td>39.8</td></tr> <tr><td>CBD</td><td>15.1</td></tr> <tr><td>Total:</td><td>63.9</td></tr> </table>	THCA	4.2	delta 9-THC	4.7	CBDA	39.8	CBD	15.1	Total:	63.9
THCA	4.2											
delta 9-THC	4.7											
CBDA	39.8											
CBD	15.1											
Total:	63.9											
Total CBD ((CBDA*0.877)+CBD)	50.04											
THCA	4.246											
delta 9-THC	4.739											
delta 8-THC	< LOQ											
THCV	< LOQ											
CBGA	< LOQ											
CBDA	39.82											
CBD	15.12											
CBDV	< LOQ											
CBN	< LOQ											
CBG	< LOQ											
CBC	< LOQ											
Total Cannabinoids	63.92											

<LOQ - Results below the Limit of Quantitation - Compound not detected. LOQ = 5 PPM (mg/L)

For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.

Water Activity Action Level is 0.65. Results above 0.65 fail state testing requirements and will be highlighted Red.

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Test RFID: 1A4010300014ADD000001172

Source RFID: 1A4010300014ADD000000886

Terpene Analysis

Date/Time Extracted: 04/06/18 12:48

Analysis Method/SOP: 204

Date/Time Analyzed: 04/06/18 23:48

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	< LOQ	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	0.05019
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.1039
Linalool	0.1140	p-Mentha-1,5-diene	< LOQ
beta-Myrcene	0.1126	alpha-Pinene	< LOQ
beta-Pinene	< LOQ	Pulegone	< LOQ
Sabinene	< LOQ	Sabinene hydrate	< LOQ
gamma-Terpinene	< LOQ	alpha-Terpinene	< LOQ
Terpinolene	0.07268	B/Y-Terpineol	< LOQ
Nerol	< LOQ	A-Terpineol	0.05571
Borneol	< LOQ	Ocimene isomer II	0.02583
Ocimene isomer I	0.000		
Sesquiterpenes	Results in %	Sesquiterpenes	Results in %
alpha-Bisabolol	0.3567	beta-Caryophyllene	1.316
Caryophyllene Oxide	0.09484	Guaiol	0.1958
alpha-Humulene	0.4570	trans-Nerolidol	< LOQ
Valencene	0.04091	cis-Nerolidol	< LOQ
Total Terpenes	2.996 %		

About your terpene profile

Terpenes are aromatic molecules found in plant resins. They are not only responsible for the many unique smells of Cannabis, but they accentuate the holistic effect of cannabinoids as well. Terpene profiles can be utilized to quantify strong flavor, identify different strains and achieve therapeutic benefits.

Green Leaf Lab's terpene analysis quantifies the 36 most common terpenes found in Cannabis sativa.

Monoterpenes:

All of the monoterpenes are very similar in chemical structure, containing 10 carbons and 6 hydrogens. Although, they are similar, the varying arrangements produce distinct aromas. Changes such as oxidation and rearrangement produce monoterpenoids which will have a different chemical formula.

Monoterpenes are more volatile than sesquiterpenes; the aromas tend to be stronger and they are more prone to being lost by heating and oxidation. Myrcene and Limonene are examples of an acyclic and cyclic monoterpene, respectively. They both share a basic structure containing a backbone of 10 carbon atoms, however arranged uniquely.

Sesquiterpenes:

The sesquiterpenes are a more complex class of terpenes. They are also generally aromatic, but are also heavier and less volatile. Thus, they often remain after some of the more volatile monoterpenes have broken down under heat or oxidation.

Eric Wendt
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Green Leaf Lab

Official Cannalysis Report

License#: 10029074C70

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<LOQ - Results below the Limit of Quantitation - Compound not detected Terpene Analysis is not ORELAP Accredited.



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Harle TSU CO2 Extracts

Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

OM Extracts

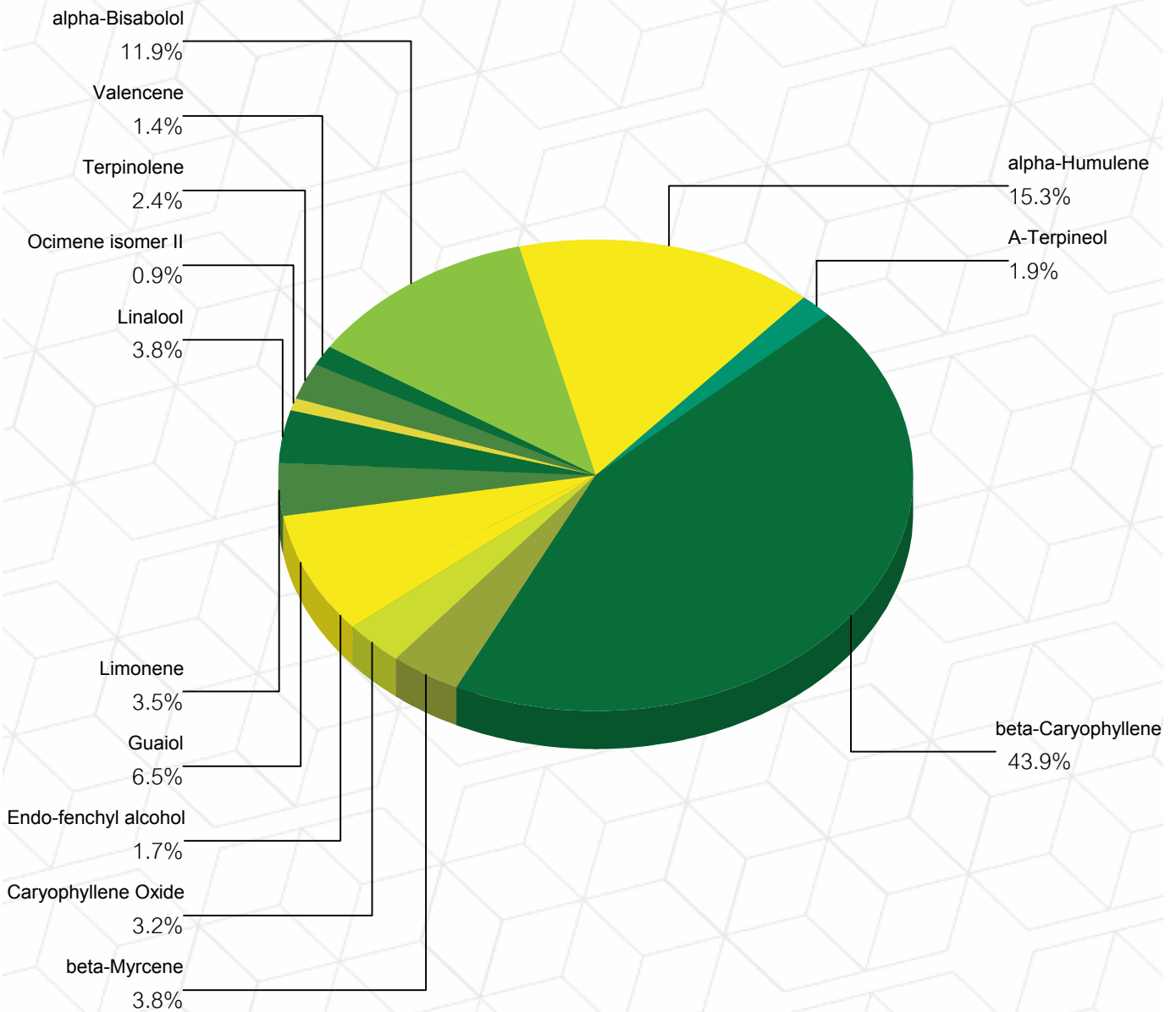
Sample ID: G8D0058-01

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Terpene Profile



Percentage of Total Terpenes Identified

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Harle TSU CO2 Extracts

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OM Extracts

Sample ID: G8D0058-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000001172

Source RFID: 1A4010300014ADD000000886

Pesticide Analysis in PPM

Date/Time Extracted: 04/06/18 10:21

Date/Time GC Analyzed: 04/06/18 23:27

Analysis Method/SOP: 203

Date/Time LC Analyzed: 04/07/18 00:42

Batch Identification: 1814031

Analyte	Result	Action Level	LOQ	Type
Abamectin	< LOQ	0.5	0.1	Insecticide and anthelmintic
Acephate	< LOQ	0.4	0.1	Organophosphate insecticide
Acequinocyl	< LOQ	2	0.1	Acaricide
Acetamiprid	< LOQ	0.2	0.1	Neonicotinoid insecticide
Aldicarb	< LOQ	0.4	0.1	Carbamate insecticide
Azoxystrobin	< LOQ	0.2	0.1	QoI fungicide
Bifenazate	< LOQ	0.2	0.1	Insecticide and miticide
Bifenthrin	< LOQ	0.2	0.1	Pyrethroid insecticide and acaricide
Boscalid	< LOQ	0.4	0.1	Carboxamide fungicide
Carbaryl	< LOQ	0.2	0.1	Carbamate insecticide
Carbofuran	< LOQ	0.2	0.1	Carbamate insecticide
Chlorantraniliprole	< LOQ	0.2	0.1	Anthranilic diamide insecticide
Chlorfenapyr	< LOQ	1	0.1	Pyrazole insecticide, acaricide and miticide
Chlorpyrifos	< LOQ	0.2	0.1	Organophosphate insecticide
Clofentezine	< LOQ	0.2	0.1	Ovicidal tetrazine acaricide
Cyfluthrin	< LOQ	1	0.1	Pyrethroid insecticide
Cypermethrin	< LOQ	1	0.1	Pyrethroid insecticide
Daminozide	< LOQ	1	0.1	Plant growth regulator
DDVP (Dichlorvos)	< LOQ	1	0.1	Organophosphate insecticide
Diazinon	< LOQ	0.2	0.1	Organophosphate insecticide
Dimethoate	< LOQ	0.2	0.1	Organophosphate insecticide
Ethoprophos	< LOQ	0.2	0.1	Organophosphate insecticide, nematocide
Etofenprox	< LOQ	0.4	0.1	Pyrethroid insecticide
Etoxazole	< LOQ	0.2	0.1	Diphenyl oxazoline acaricide
Fenoxycarb	< LOQ	0.2	0.1	Carbamate insecticide
Fenpyroximate	< LOQ	0.4	0.1	Pyrazolium insecticide and acaricide
Fipronil	< LOQ	0.4	0.1	Pyrazole insecticide
Flonicamid	< LOQ	1	0.1	Pyridinecarboxamide insecticide
Fludioxonil	< LOQ	0.4	0.1	Phenylpyrrole fungicide
Hexythiazox	< LOQ	1	0.1	Carboxamide acaricide
Imazalil	< LOQ	0.2	0.1	Azole fungicide
Imidacloprid	< LOQ	0.4	0.1	Neonicotinoid insecticide
Kresoxim-methyl	< LOQ	0.4	0.1	Strobilurin fungicide and bactericide
Malathion	< LOQ	0.2	0.1	Organophosphate insecticide and acaricide
Metalaxyl	< LOQ	0.2	0.1	Phenylamide fungicide

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OM Extracts

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Source RFID: 1A4010300014ADD000000886

Pesticide Analysis in PPM

Date/Time Extracted: 04/06/18 10:21

Date/Time GC Analyzed: 04/06/18 23:27

Analysis Method/SOP: 203

Date/Time LC Analyzed: 04/07/18 00:42

Batch Identification: 1814031

Analyte	Result	Action Level	LOQ	Type
Methiocarb	< LOQ	0.2	0.1	Carbamate insecticide
Methomyl	< LOQ	0.4	0.1	Carbamate insecticide
Methyl parathion	< LOQ	0.2	0.1	Organophosphate insecticide
MGK-264	< LOQ	0.2	0.1	Synergist
Myclobutanil	< LOQ	0.2	0.1	Triazole fungicide
Naled	< LOQ	0.5	0.1	Organophosphate insecticide and acaricide
Oxamyl	< LOQ	1	0.1	Organophosphate insecticide, nematocide
Paclobutrazol	< LOQ	0.4	0.1	Triazole fungicide and plant growth regulator
Permethrins	< LOQ	0.2	0.1	Pyrethroid insecticide
Phosmet	< LOQ	0.2	0.1	Organophosphate insecticide and acaricide
Piperonyl butoxide	< LOQ	2	0.1	Synergist
Prallethrin	< LOQ	0.2	0.1	Synthetic pyrethroid insecticide
Propiconazole	< LOQ	0.4	0.1	Triazole fungicide
Propoxur	< LOQ	0.2	0.1	Carbamate insecticide and acaricide
Pyrethrins	< LOQ	1	0.1	Pyrethroid insecticide
Pyridaben	< LOQ	0.2	0.1	Pyridazinone insecticide and acaricide
Spinosad	< LOQ	0.2	0.1	Spinosyn insecticide
Spiromesifen	< LOQ	0.2	0.1	Keto-enol insecticide
Spirotetramat	< LOQ	0.2	0.1	Keto-enol insecticide
Spiroxamine	< LOQ	0.4	0.1	Morpholine fungicide
Tebuconazole	< LOQ	0.4	0.1	Triazole fungicide and plant growth regulator
Thiacloprid	< LOQ	0.2	0.1	Neonicotinoid insecticide and molluscicide
Thiamethoxam	< LOQ	0.2	0.1	Neonicotinoid insecticide
Trifloxystrobin	< LOQ	0.2	0.1	Strobilurin fungicide

<LOQ - Results below the Limit of Quantitation - Compound not detected

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

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Test RFID: 1A4010300014ADD000001172

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Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

Residual Solvents

Solvent	Results in ppm	LOQ	Action Level	
Acetone	< LOQ	1000	5000	
Acetonitrile	< LOQ	50.00	410	
Benzene	< LOQ	0.5000	2	
Butanes	< LOQ	1000	5000 ³	
2-Butanol	< LOQ	1000	5000	
Cumene	< LOQ	50.00	70	
Cyclohexane	< LOQ	50.00	3880	
Dichloromethane	< LOQ	50.00	600	
1,4-Dioxane	< LOQ	50.00	380	
2-Ethoxyethanol	< LOQ	50.00	160	
Ethyl acetate	< LOQ	1000	5000	
Ethylene glycol	< LOQ	50.00	620	
Ethylene oxide	< LOQ	50.00	50	
Ethyl ether	< LOQ	1000	5000	
Heptane	< LOQ	1000	5000	
Hexanes	< LOQ	50.00	290 ⁴	
Isopropyl acetate	< LOQ	1000	5000	
Methanol	< LOQ	100.0	3000	
Pentanes	< LOQ	1000	5000 ⁵	
Propane	< LOQ	1000	5000	
2-Propanol (IPA)	< LOQ	1000	5000	
Tetrahydrofuran	< LOQ	50.00	720	
Toluene	< LOQ	50.00	890	

Date/Time Extracted: 04/06/18 12:27
 Date/Time Analyzed: 04/06/18 20:12
 Analysis Method/SOP: 205
 Batch Identification: 1814037

3 - Total butanes should be calculated as sum of n-butanenes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes should be 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 should be 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 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1,4-dimethylbenzene (CAS# 106-42-3)

<LOQ - Results below the Limit of Quantitation - Compound not detected
 Results above the Action Level fail state testing requirements and will be highlighted Red.

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 Chief Science Officer - 4/12/2018



Quality Control Potency

Batch: 1814039 - 215-Concentrates

Blank(1814039-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
delta 9-THC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
delta 8-THC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBGA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
THCV	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBDA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBD	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBDV	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBN	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBG	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48

LCS(1814039-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	97.9	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
delta 9-THC	101	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
CBDA	104	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
CBD	101	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59

LCS(1814039-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	113	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
delta 9-THC	103	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
CBDA	102	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
CBD	98.4	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11

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Quality Control Pesticide Analysis

Batch: 1814031 - 203

Blank(1814031-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
DDVP (Dichlorvos)	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Acephate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Acequinocyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Acetamiprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Aldicarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Azoxystrobin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Bifenazate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Bifenthrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Boscalid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Carbaryl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Carbofuran	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Chlorantraniliprole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Chlorfenapyr	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Chlorpyrifos	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Clofentezine	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Cyfluthrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Cypermethrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Daminozide	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Diazinon	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Dimethoate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Ethoprophos	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Etofenprox	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Etoxazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fenoxycarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fenpyroximate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fipronil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Fonicamid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fludioxonil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Hexythiazox	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Imazalil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Imidacloprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Kresoxim-methyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Malathion	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Metalaxyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methiocarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methomyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methyl parathion	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

Blank(1814031-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
MGK-264	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Myclobutanil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Naled	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Oxamyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Paclobutrazol	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Permethrins	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Phosmet	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Piperonyl butoxide	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Prallethrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Propiconazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Propoxur	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Pyrethrins	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Pyridaben	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spinosad	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spiromesifen	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spirotetramat	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spiroxamine	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Tebuconazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Thiacloprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Thiamethoxam	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Trifloxystrobin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	95.9	0.1	ppm	7-141	04/06/18 10:21	04/06/18 21:45
DDVP (Dichlorvos)	83.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Acephate	89.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Acequinocyl	52.4	0.1	ppm	0-111	04/06/18 10:21	04/06/18 21:45
Acetamiprid	105	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Aldicarb	94.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Azoxystrobin	99.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Bifenazate	116	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Bifenthrin	125	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Boscalid	74.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Carbaryl	76.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Carbofuran	91.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Chlorantraniliprole	84.9	0.1	ppm	26-131	04/06/18 10:21	04/06/18 21:45
Chlorfenapyr	87.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Chlorpyrifos	93.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Clofentezine	76.5	0.1	ppm	35-118	04/06/18 10:21	04/06/18 21:45
Cyfluthrin	90.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Cypermethrin	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Daminozide	19.4	0.1	ppm	0-100	04/06/18 10:21	04/06/18 21:45
Diazinon	96.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Dimethoate	110	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Ethoprophos	104	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Etofenprox	92.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Etoxazole	93.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fenoxycarb	92.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fenpyroximate	90.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fipronil	92.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Flonicamid	93.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fludioxonil	81.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Hexythiazox	78.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Imazalil	71.6	0.1	ppm	31-103	04/06/18 10:21	04/06/18 21:45
Imidacloprid	92.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Kresoxim-methyl	87.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Malathion	90.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Metalaxyl	99.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methiocarb	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methomyl	93.2	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methyl parathion	89.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
MGK-264	80.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Myclobutanil	81.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Naled	78.3	0.1	ppm	0-103	04/06/18 10:21	04/06/18 18:39
Oxamyl	98.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Paclobutrazol	99.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Permethrins	90.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Phosmet	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Piperonyl butoxide	114	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Prallethrin	98.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Propiconazole	86.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Propoxur	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Pyrethrins	114	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Pyridaben	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Spinosad	55.7	0.1	ppm	24-91	04/06/18 10:21	04/06/18 21:45
Spiromesifen	97.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45

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Quality Standards

Quality Control
Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Spirotetramat	92.6	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Spiroxamine	53.6	0.1	ppm	15-95	04/06/18 10:21	04/06/18 21:45
Tebuconazole	90.6	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Thiacloprid	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Thiamethoxam	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Trifloxystrobin	92.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45

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Chief Science Officer - 4/12/2018



Quality Control Solvent Analysis

Batch: 1814037 - 205

Blank(1814037-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Acetonitrile	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Benzene	< LOQ	0.5000	ppm		04/06/18 12:27	04/09/18 10:05
Butanes	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
2-Butanol	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Cumene	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Cyclohexane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Dichloromethane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
1,4-Dioxane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
2-Ethoxyethanol	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethyl acetate	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Ethylene glycol	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethylene oxide	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethyl ether	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Heptane	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Hexanes	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Isopropyl acetate	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Methanol	< LOQ	100.0	ppm		04/06/18 12:27	04/09/18 10:05
Pentanes	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Propane	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
2-Propanol (IPA)	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Tetrahydrofuran	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Toluene	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05

LCS(1814037-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	105	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Acetonitrile	109	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Benzene	113	0.5000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Butane	97.3	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Butanes	95.8	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Butanol	108	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Cumene	99.6	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Cyclohexane	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Dichloromethane	105	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
1,4-Dimethylbenzene	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
1,4-Dioxane	110	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Ethoxyethanol	108	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethyl acetate	104	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48

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Quality Control

Solvent Analysis (Continued)

Batch: 1814037 - 205 (Continued)

LCS(1814037-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl benzene	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethylene glycol	143	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethylene oxide	108	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethyl ether	103	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Heptane	108	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Hexane	102	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Hexanes	98.6	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
iso-Butane	94.3	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Isopropyl acetate	109	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
iso-Pentane	101	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Methanol	112	100.0	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Methylpentane	99.9	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
3-Methylpentane	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
neo-Pentane	94.6	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Pentane	98.7	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Pentanes	98.1	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Propane	84.9	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Propanol (IPA)	109	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Tetrahydrofuran	107	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Toluene	104	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48

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Harle TSU CO2 Extracts Duplicate

OM Extracts

Sample ID: G8D0058-02

Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

Results at a Glance

Total THC : 8.895 %

Total CBD : 52.69 %

Pesticides : PASS

Residual Solvent Analysis : PASS

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Harle TSU CO2 Extracts Duplicate

Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

OM Extracts

Sample ID: G8D0058-02

Matrix: Extracts and Concentrates

Test RFID: 1172

Source RFID: 1A4010300014ADD000000886

Potency Analysis

Date/Time Extracted: 04/06/18 12:48

Analysis Method/SOP: 215

Date/Time Analyzed: 04/07/18 11:30

Batch Identification: 1814039

Cannabinoids (% weight)	Decarboxylated* %	Cannabinoids Profile										
Total THC ((THCA*0.877)+Δ9)	8.895	<table border="1"> <tr><td>THCA</td><td>4.5</td></tr> <tr><td>delta 9-THC</td><td>5.0</td></tr> <tr><td>CBDA</td><td>42.0</td></tr> <tr><td>CBD</td><td>15.8</td></tr> <tr><td>Total:</td><td>67.3</td></tr> </table>	THCA	4.5	delta 9-THC	5.0	CBDA	42.0	CBD	15.8	Total:	67.3
THCA	4.5											
delta 9-THC	5.0											
CBDA	42.0											
CBD	15.8											
Total:	67.3											
Total CBD ((CBDA*0.877)+CBD)	52.69											
THCA	4.469											
delta 9-THC	4.975											
delta 8-THC	< LOQ											
THCV	< LOQ											
CBGA	< LOQ											
CBDA	42.01											
CBD	15.84											
CBDV	< LOQ											
CBN	< LOQ											
CBG	< LOQ											
CBC	< LOQ											
Total Cannabinoids	67.30											

<LOQ - Results below the Limit of Quantitation - Compound not detected. LOQ = 5 PPM (mg/L)

For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.

Water Activity Action Level is 0.65. Results above 0.65 fail state testing requirements and will be highlighted Red.

Eric Wendt
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Harle TSU CO2 Extracts Duplicate

Date Sampled: 04/04/18

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

OM Extracts

Sample ID: G8D0058-02

Matrix: Extracts and Concentrates

Test RFID: 1172

Source RFID: 1A4010300014ADD000000886

Pesticide Analysis in PPM

Date/Time Extracted: 04/06/18 10:21

Date/Time GC Analyzed: 04/06/18 23:49

Analysis Method/SOP: 203

Date/Time LC Analyzed: 04/07/18 00:55

Batch Identification: 1814031

Analyte	Result	Action Level	LOQ	Type
Abamectin	< LOQ	0.5	0.1	Insecticide and anthelmintic
Acephate	< LOQ	0.4	0.1	Organophosphate insecticide
Acequinocyl	< LOQ	2	0.1	Acaricide
Acetamiprid	< LOQ	0.2	0.1	Neonicotinoid insecticide
Aldicarb	< LOQ	0.4	0.1	Carbamate insecticide
Azoxystrobin	< LOQ	0.2	0.1	QoI fungicide
Bifenazate	< LOQ	0.2	0.1	Insecticide and miticide
Bifenthrin	< LOQ	0.2	0.1	Pyrethroid insecticide and acaricide
Boscalid	< LOQ	0.4	0.1	Carboxamide fungicide
Carbaryl	< LOQ	0.2	0.1	Carbamate insecticide
Carbofuran	< LOQ	0.2	0.1	Carbamate insecticide
Chlorantraniliprole	< LOQ	0.2	0.1	Anthranilic diamide insecticide
Chlorfenapyr	< LOQ	1	0.1	Pyrazole insecticide, acaricide and miticide
Chlorpyrifos	< LOQ	0.2	0.1	Organophosphate insecticide
Clofentezine	< LOQ	0.2	0.1	Ovicidal tetrazine acaricide
Cyfluthrin	< LOQ	1	0.1	Pyrethroid insecticide
Cypermethrin	< LOQ	1	0.1	Pyrethroid insecticide
Daminozide	< LOQ	1	0.1	Plant growth regulator
DDVP (Dichlorvos)	< LOQ	1	0.1	Organophosphate insecticide
Diazinon	< LOQ	0.2	0.1	Organophosphate insecticide
Dimethoate	< LOQ	0.2	0.1	Organophosphate insecticide
Ethoprophos	< LOQ	0.2	0.1	Organophosphate insecticide, nematocide
Etofenprox	< LOQ	0.4	0.1	Pyrethroid insecticide
Etoxazole	< LOQ	0.2	0.1	Diphenyl oxazoline acaricide
Fenoxycarb	< LOQ	0.2	0.1	Carbamate insecticide
Fenpyroximate	< LOQ	0.4	0.1	Pyrazolium insecticide and acaricide
Fipronil	< LOQ	0.4	0.1	Pyrazole insecticide
Flonicamid	< LOQ	1	0.1	Pyridinecarboxamide insecticide
Fludioxonil	< LOQ	0.4	0.1	Phenylpyrrole fungicide
Hexythiazox	< LOQ	1	0.1	Carboxamide acaricide
Imazalil	< LOQ	0.2	0.1	Azole fungicide
Imidacloprid	< LOQ	0.4	0.1	Neonicotinoid insecticide
Kresoxim-methyl	< LOQ	0.4	0.1	Strobilurin fungicide and bactericide
Malathion	< LOQ	0.2	0.1	Organophosphate insecticide and acaricide
Metalaxyl	< LOQ	0.2	0.1	Phenylamide fungicide

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Harle TSU CO2 Extracts Duplicate

Date Sampled: 04/04/18

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

OM Extracts

Sample ID: G8D0058-02

Matrix: Extracts and Concentrates

Test RFID: 1172

Source RFID: 1A4010300014ADD000000886

Pesticide Analysis in PPM

Date/Time Extracted: 04/06/18 10:21

Date/Time GC Analyzed: 04/06/18 23:49

Analysis Method/SOP: 203

Date/Time LC Analyzed: 04/07/18 00:55

Batch Identification: 1814031

Analyte	Result	Action Level	LOQ	Type
Methiocarb	< LOQ	0.2	0.1	Carbamate insecticide
Methomyl	< LOQ	0.4	0.1	Carbamate insecticide
Methyl parathion	< LOQ	0.2	0.1	Organophosphate insecticide
MGK-264	< LOQ	0.2	0.1	Synergist
Myclobutanil	< LOQ	0.2	0.1	Triazole fungicide
Naled	< LOQ	0.5	0.1	Organophosphate insecticide and acaricide
Oxamyl	< LOQ	1	0.1	Organophosphate insecticide, nematocide
Paclobutrazol	< LOQ	0.4	0.1	Triazole fungicide and plant growth regulator
Permethrins	< LOQ	0.2	0.1	Pyrethroid insecticide
Phosmet	< LOQ	0.2	0.1	Organophosphate insecticide and acaricide
Piperonyl butoxide	< LOQ	2	0.1	Synergist
Prallethrin	< LOQ	0.2	0.1	Synthetic pyrethroid insecticide
Propiconazole	< LOQ	0.4	0.1	Triazole fungicide
Propoxur	< LOQ	0.2	0.1	Carbamate insecticide and acaricide
Pyrethrins	< LOQ	1	0.1	Pyrethroid insecticide
Pyridaben	< LOQ	0.2	0.1	Pyridazinone insecticide and acaricide
Spinosad	< LOQ	0.2	0.1	Spinosyn insecticide
Spiromesifen	< LOQ	0.2	0.1	Keto-enol insecticide
Spirotetramat	< LOQ	0.2	0.1	Keto-enol insecticide
Spiroxamine	< LOQ	0.4	0.1	Morpholine fungicide
Tebuconazole	< LOQ	0.4	0.1	Triazole fungicide and plant growth regulator
Thiacloprid	< LOQ	0.2	0.1	Neonicotinoid insecticide and molluscicide
Thiamethoxam	< LOQ	0.2	0.1	Neonicotinoid insecticide
Trifloxystrobin	< LOQ	0.2	0.1	Strobilurin fungicide

<LOQ - Results below the Limit of Quantitation - Compound not detected

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

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 Chief Science Officer - 4/12/2018



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Harle TSU CO2 Extracts Duplicate

OM Extracts

Sample ID: G8D0058-02

Matrix: Extracts and Concentrates

Test RFID: 1172

Source RFID: 1A4010300014ADD000000886

Date Sampled: 04/04/18 00:00

Date Accepted: 04/04/18

Results Valid Until: 04/04/19

Residual Solvents

Solvent	Results in ppm	LOQ	Action Level	
Acetone	< LOQ	1000	5000	
Acetonitrile	< LOQ	50.00	410	
Benzene	< LOQ	0.5000	2	
Butanes	< LOQ	1000	5000 ³	
2-Butanol	< LOQ	1000	5000	
Cumene	< LOQ	50.00	70	
Cyclohexane	< LOQ	50.00	3880	
Dichloromethane	< LOQ	50.00	600	
1,4-Dioxane	< LOQ	50.00	380	
2-Ethoxyethanol	< LOQ	50.00	160	
Ethyl acetate	< LOQ	1000	5000	
Ethylene glycol	< LOQ	50.00	620	
Ethylene oxide	< LOQ	50.00	50	
Ethyl ether	< LOQ	1000	5000	
Heptane	< LOQ	1000	5000	
Hexanes	< LOQ	50.00	290 ⁴	
Isopropyl acetate	< LOQ	1000	5000	
Methanol	< LOQ	100.0	3000	
Pentanes	< LOQ	1000	5000 ⁵	
Propane	< LOQ	1000	5000	
2-Propanol (IPA)	< LOQ	1000	5000	
Tetrahydrofuran	< LOQ	50.00	720	
Toluene	< LOQ	50.00	890	

Date/Time Extracted: 04/06/18 12:27

Date/Time Analyzed: 04/06/18 20:48

Analysis Method/SOP: 205

Batch Identification: 1814037

3 - Total butanes should be calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes should be 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 should be 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 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1,4-dimethylbenzene (CAS# 106-42-3)

<LOQ - Results below the Limit of Quantitation - Compound not detected
 Results above the Action Level fail state testing requirements and will be highlighted Red.

Eric Wendt
 Chief Science Officer - 4/12/2018



Quality Control Potency

Batch: 1814039 - 215-Concentrates

Blank(1814039-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
delta 9-THC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
delta 8-THC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBGA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
THCV	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBDA	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBD	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBDV	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBN	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBG	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48
CBC	< LOQ	0.8000	%		04/06/18 12:48	04/07/18 08:48

LCS(1814039-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	97.9	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
delta 9-THC	101	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
CBDA	104	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59
CBD	101	0.0100	%	80-120	04/06/18 12:48	04/07/18 08:59

LCS(1814039-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	113	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
delta 9-THC	103	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
CBDA	102	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11
CBD	98.4	0.0100	%	80-120	04/06/18 12:48	04/07/18 09:11

Eric Wendt
Chief Science Officer - 4/12/2018

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Quality Standards

Quality Control Pesticide Analysis

Batch: 1814031 - 203

Blank(1814031-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
DDVP (Dichlorvos)	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Acephate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Acequinocyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Acetamiprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Aldicarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Azoxystrobin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Bifenazate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Bifenthrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Boscalid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Carbaryl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Carbofuran	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Chlorantraniliprole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Chlorfenapyr	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Chlorpyrifos	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Clofentezine	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Cyfluthrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Cypermethrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Daminozide	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Diazinon	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Dimethoate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Ethoprophos	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Etofenprox	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Etoxazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fenoxycarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fenpyroximate	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fipronil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Fonicamid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Fludioxonil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Hexythiazox	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Imazalil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Imidacloprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Kresoxim-methyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Malathion	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Metalaxyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methiocarb	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methomyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Methyl parathion	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

Blank(1814031-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
MGK-264	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Myclobutanil	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Naled	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Oxamyl	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Paclobutrazol	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Permethrins	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Phosmet	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Piperonyl butoxide	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Prallethrin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Propiconazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 18:17
Propoxur	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Pyrethrins	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Pyridaben	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spinosad	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spiromesifen	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spirotetramat	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Spiroxamine	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Tebuconazole	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Thiacloprid	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Thiamethoxam	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32
Trifloxystrobin	< LOQ	0.1	ppm		04/06/18 10:21	04/06/18 21:32

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	95.9	0.1	ppm	7-141	04/06/18 10:21	04/06/18 21:45
DDVP (Dichlorvos)	83.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Acephate	89.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Acequinocyl	52.4	0.1	ppm	0-111	04/06/18 10:21	04/06/18 21:45
Acetamiprid	105	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Aldicarb	94.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Azoxystrobin	99.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Bifenazate	116	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Bifenthrin	125	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Boscalid	74.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Carbaryl	76.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Carbofuran	91.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Chlorantraniliprole	84.9	0.1	ppm	26-131	04/06/18 10:21	04/06/18 21:45
Chlorfenapyr	87.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Chlorpyrifos	93.4	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Clofentezine	76.5	0.1	ppm	35-118	04/06/18 10:21	04/06/18 21:45
Cyfluthrin	90.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Cypermethrin	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Daminozide	19.4	0.1	ppm	0-100	04/06/18 10:21	04/06/18 21:45
Diazinon	96.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Dimethoate	110	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Ethoprophos	104	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Etofenprox	92.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Etoxazole	93.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fenoxycarb	92.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fenpyroximate	90.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fipronil	92.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Flonicamid	93.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Fludioxonil	81.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Hexythiazox	78.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Imazalil	71.6	0.1	ppm	31-103	04/06/18 10:21	04/06/18 21:45
Imidacloprid	92.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Kresoxim-methyl	87.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Malathion	90.7	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Metalaxyl	99.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methiocarb	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methomyl	93.2	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Methyl parathion	89.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
MGK-264	80.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Myclobutanil	81.8	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Naled	78.3	0.1	ppm	0-103	04/06/18 10:21	04/06/18 18:39
Oxamyl	98.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Paclobutrazol	99.9	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Permethrins	90.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Phosmet	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Piperonyl butoxide	114	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Prallethrin	98.3	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Propiconazole	86.5	0.1	ppm	70-130	04/06/18 10:21	04/06/18 18:39
Propoxur	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Pyrethrins	114	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Pyridaben	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Spinosad	55.7	0.1	ppm	24-91	04/06/18 10:21	04/06/18 21:45
Spiromesifen	97.0	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45

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Chief Science Officer - 4/12/2018



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Quality Control
Pesticide Analysis (Continued)

Batch: 1814031 - 203 (Continued)

LCS(1814031-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Spirotetramat	92.6	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Spiroxamine	53.6	0.1	ppm	15-95	04/06/18 10:21	04/06/18 21:45
Tebuconazole	90.6	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Thiacloprid	101	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Thiamethoxam	107	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45
Trifloxystrobin	92.1	0.1	ppm	70-130	04/06/18 10:21	04/06/18 21:45

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control Solvent Analysis

Batch: 1814037 - 205

Blank(1814037-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Acetonitrile	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Benzene	< LOQ	0.5000	ppm		04/06/18 12:27	04/09/18 10:05
Butanes	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
2-Butanol	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Cumene	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Cyclohexane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Dichloromethane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
1,4-Dioxane	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
2-Ethoxyethanol	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethyl acetate	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Ethylene glycol	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethylene oxide	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Ethyl ether	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Heptane	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Hexanes	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Isopropyl acetate	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Methanol	< LOQ	100.0	ppm		04/06/18 12:27	04/09/18 10:05
Pentanes	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Propane	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
2-Propanol (IPA)	< LOQ	1000	ppm		04/06/18 12:27	04/09/18 10:05
Tetrahydrofuran	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05
Toluene	< LOQ	50.00	ppm		04/06/18 12:27	04/09/18 10:05

LCS(1814037-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	105	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Acetonitrile	109	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Benzene	113	0.5000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Butane	97.3	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Butanes	95.8	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Butanol	108	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Cumene	99.6	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Cyclohexane	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Dichloromethane	105	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
1,4-Dimethylbenzene	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
1,4-Dioxane	110	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Ethoxyethanol	108	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethyl acetate	104	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48

Eric Wendt
Chief Science Officer - 4/12/2018



Quality Control

Solvent Analysis (Continued)

Batch: 1814037 - 205 (Continued)

LCS(1814037-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl benzene	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethylene glycol	143	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethylene oxide	108	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Ethyl ether	103	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Heptane	108	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Hexane	102	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Hexanes	98.6	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
iso-Butane	94.3	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Isopropyl acetate	109	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
iso-Pentane	101	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Methanol	112	100.0	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Methylpentane	99.9	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
3-Methylpentane	101	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
neo-Pentane	94.6	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
n-Pentane	98.7	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Pentanes	98.1	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Propane	84.9	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
2-Propanol (IPA)	109	1000	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Tetrahydrofuran	107	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48
Toluene	104	50.00	ppm	70-130	04/06/18 12:27	04/06/18 17:48

Eric Wendt
Chief Science Officer - 4/12/2018