



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Tangie CO2 Oil

OM Extracts

Sample ID: G8A0198-01

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Results at a Glance

Total THC : 62.41 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Total Terpenes : 4.470 % PASS

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil

OM Extracts

Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000027

Source RFID: 1A4010300014ADD000000026

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Potency Analysis

Date/Time Extracted: 01/24/18 11:18

Analysis Method/SOP: 215

Date/Time Analyzed: 01/24/18 18:07

Batch Identification: 1804024

Cannabinoids (% weight)	Decarboxylated* %	Cannabinoids Profile								
Total THC ((THCA*0.877)+Δ9)	62.41	<table border="1"> <tr><td>THCA</td><td>45.4</td></tr> <tr><td>delta 9-THC</td><td>22.6</td></tr> <tr><td>CBGA</td><td>1.4</td></tr> <tr><td>Total</td><td>69.4</td></tr> </table>	THCA	45.4	delta 9-THC	22.6	CBGA	1.4	Total	69.4
THCA	45.4									
delta 9-THC	22.6									
CBGA	1.4									
Total	69.4									
Total CBD ((CBDA*0.877)+CBD)	< LOQ									
THCA	45.44									
delta 9-THC	22.56									
delta 8-THC	< LOQ									
THCV	< LOQ									
CBGA	1.374									
CBDA	< LOQ									
CBD	< LOQ									
CBDV	< LOQ									
CBN	< LOQ									
CBG	< LOQ									
CBC	< LOQ									
Total Cannabinoids	69.37									

<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
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil

OM Extracts

Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000027

Source RFID: 1A4010300014ADD000000026

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Terpene Analysis

Date/Time Extracted: 01/24/18 11:18

Analysis Method/SOP: 204

Date/Time Analyzed: 01/25/18 16:19

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	< LOQ	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	0.06398
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.04086
Linalool	0.1631	p-Mentha-1,5-diene	< LOQ
beta-Myrcene	0.1086	Ocimene	< LOQ
alpha-Pinene	< LOQ	beta-Pinene	< LOQ
Pulegone	< LOQ	Sabinene	< LOQ
Sabinene hydrate	< LOQ	gamma-Terpinene	< LOQ
alpha-Terpinene	< LOQ	Terpineol	0.06762
Terpinolene	< LOQ	Nerol	< LOQ
Borneol	< LOQ		
Sesquiterpenes	Results in %	Sesquiterpenes	Results in %
alpha-Bisabolol	0.6880	beta-Caryophyllene	2.364
Caryophyllene Oxide	0.1352	Guaiol	0.05778
alpha-Humulene	0.6843	Nerolidol	0.09572
Valencene	< LOQ		
Total Terpenes	4.470 %		

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.

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

Eric Wendt
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Tangie CO2 Oil

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

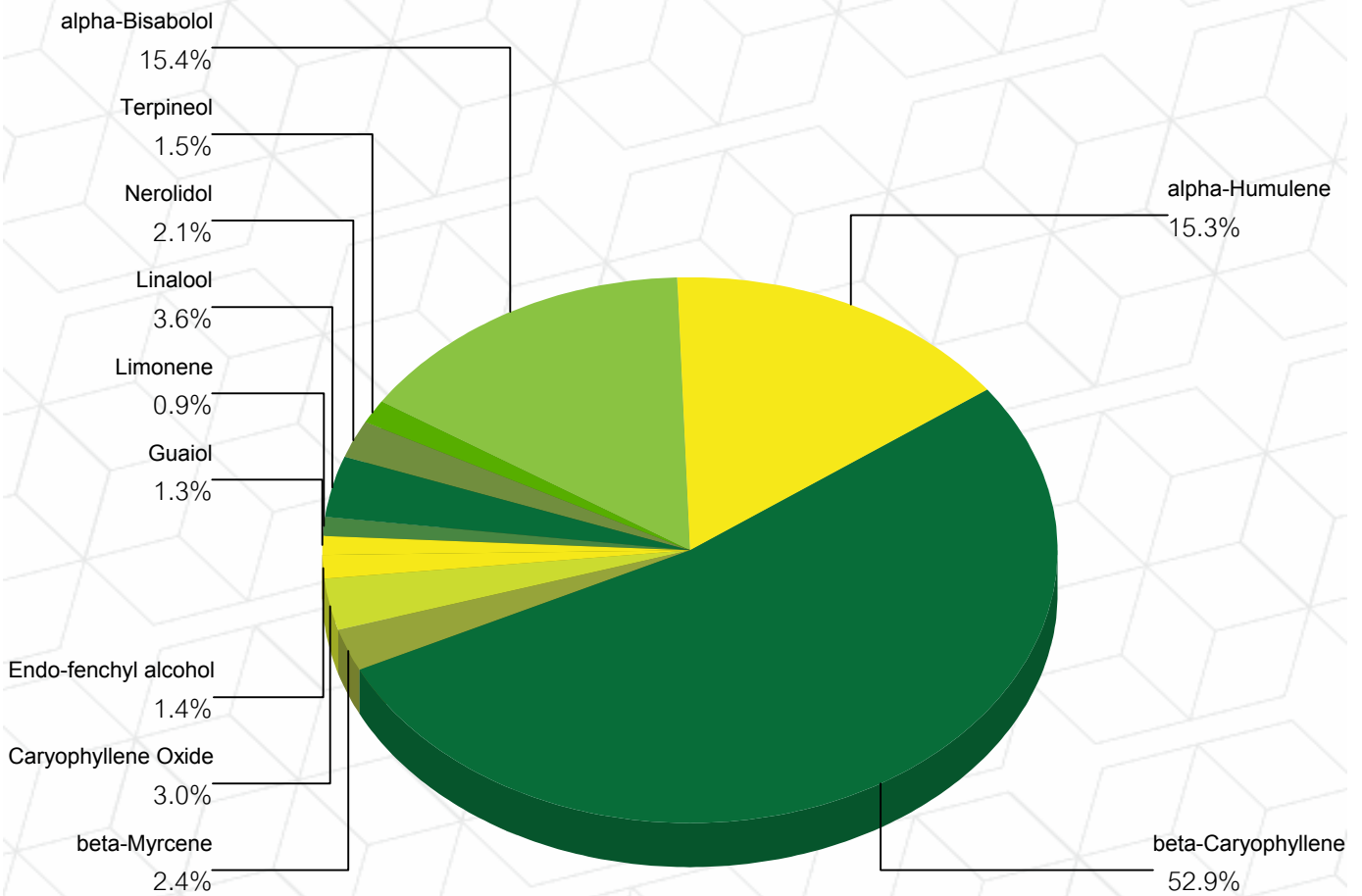
Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000027

Source RFID: 1A4010300014ADD000000026

Terpene Profile



Percentage of Total Terpenes Identified

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil

Date Sampled: 01/22/18

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000027

Source RFID: 1A4010300014ADD000000026

Pesticide Analysis in PPM

Date/Time Extracted: 01/23/18 10:05

Date/Time GC Analyzed: 01/24/18 06:27

Analysis Method/SOP: 203

Date/Time LC Analyzed: 01/25/18 00:13

Batch Identification: 1804010

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	0.2	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

Eric Wendt
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil

OM Extracts

Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000027

Source RFID: 1A4010300014ADD000000026

Date Sampled: 01/22/18

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Pesticide Analysis in PPM

Date/Time Extracted: 01/23/18 10:05

Date/Time GC Analyzed: 01/24/18 06:27

Analysis Method/SOP: 203

Date/Time LC Analyzed: 01/25/18 00:13

Batch Identification: 1804010

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.

Eric Wendt
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil

OM Extracts

Sample ID: G8A0198-01

Matrix: Extracts and Concentrates

Source RFID: 1A4010300014ADD000000026

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Test RFID: 1A4010300014ADD000000027

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: 01/23/18 13:12

Date/Time Analyzed: 01/24/18 06:57

Analysis Method/SOP: 205

Batch Identification: 1804017

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 - 1/26/2018



Quality Control Potency

Batch: 1804024 - 215-Concentrates

Blank(1804024-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
delta 9-THC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
delta 8-THC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBGA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
THCV	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBDA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBD	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBDV	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBN	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBG	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21

LCS(1804024-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	103	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
delta 9-THC	106	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
CBDA	110	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
CBD	105	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32

LCS(1804024-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	97.5	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
delta 9-THC	102	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
CBDA	105	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
CBD	101	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control Pesticide Analysis

Batch: 1804010 - 203

Blank(1804010-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
DDVP (Dichlorvos)	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Acephate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Acequinocyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Acetamiprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Aldicarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Azoxystrobin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Bifenazate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Bifenthrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Boscalid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Carbaryl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Carbofuran	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Chlorantraniliprole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Chlorfenapyr	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Chlorpyrifos	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Clofentezine	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Cyfluthrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Cypermethrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Daminozide	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Diazinon	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Dimethoate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Ethoprophos	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Etofenprox	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Etoxazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fenoxycarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fenpyroximate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fipronil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Fonicamid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fludioxonil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Hexythiazox	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Imazalil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Imidacloprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Kresoxim-methyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Malathion	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Metalaxyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methiocarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methomyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methyl parathion	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42

Eric Wendt
Chief Science Officer - 1/26/2018

12025 NE Marx St. Portland, OR 97220
503-253-3511 / www.greenleaflab.orgGreen Leaf Lab proudly follows TNI 2009
Quality Standards

Quality Control Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

Blank(1804010-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
MGK-264	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Myclobutanil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Naled	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Oxamyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Paclobutrazol	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Permethrins	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Phosmet	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Piperonyl butoxide	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Prallethrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Propiconazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Propoxur	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Pyrethrins	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Pyridaben	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spinosad	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spiromesifen	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spirotetramat	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spiroxamine	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Tebuconazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Thiacloprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Thiamethoxam	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Trifloxystrobin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	64.3	0.1	ppm	7-141	01/23/18 10:05	01/24/18 21:30
DDVP (Dichlorvos)	77.1	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Acephate	78.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Acequinocyl	60.2	0.1	ppm	0-111	01/23/18 10:05	01/24/18 21:30
Acetamiprid	93.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Aldicarb	93.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Azoxystrobin	91.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Bifenazate	158	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Bifenthrin	73.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Boscalid	88.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Carbaryl	83.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Carbofuran	86.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Chlorantraniliprole	78.7	0.1	ppm	26-131	01/23/18 10:05	01/24/18 21:30
Chlorfenapyr	77.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Chlorpyrifos	85.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Clofentezine	55.2	0.1	ppm	35-118	01/23/18 10:05	01/24/18 21:30
Cyfluthrin	89.7	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Cypermethrin	93.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Daminozide	10.0	0.1	ppm	0-100	01/23/18 10:05	01/24/18 21:30
Diazinon	91.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Dimethoate	89.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Ethoprophos	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Etofenprox	74.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Etoxazole	77.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fenoxycarb	87.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fenpyroximate	69.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fipronil	85.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Flonicamid	91.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fludioxonil	77.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Hexythiazox	79.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Imazalil	47.1	0.1	ppm	31-103	01/23/18 10:05	01/24/18 21:30
Imidacloprid	98.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Kresoxim-methyl	85.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Malathion	71.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Metalaxyl	76.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methiocarb	91.7	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methomyl	88.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methyl parathion	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
MGK-264	81.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Myclobutanil	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Naled	75.1	0.1	ppm	0-103	01/23/18 10:05	01/24/18 02:04
Oxamyl	91.1	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Paclobutrazol	73.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Permethrins	90.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Phosmet	90.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Piperonyl butoxide	94.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Prallethrin	96.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Propiconazole	77.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Propoxur	94.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Pyrethrins	98.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Pyridaben	79.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Spinosad	44.4	0.1	ppm	24-91	01/23/18 10:05	01/24/18 21:30
Spiromesifen	91.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Quality Control

Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Spirotetramat	89.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Spiroxamine	53.1	0.1	ppm	15-95	01/23/18 10:05	01/24/18 21:30
Tebuconazole	78.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Thiacloprid	89.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Thiamethoxam	89.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Trifloxystrobin	85.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30

Eric Wendt
Chief Science Officer - 1/26/2018

12025 NE Marx St. Portland, OR 97220
503-253-3511 / www.greenleaflab.orgGreen Leaf Lab proudly follows TNI 2009
Quality Standards

Quality Control Solvent Analysis

Batch: 1804017 - 205

Blank(1804017-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Acetonitrile	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Benzene	< LOQ	0.5000	ppm		01/23/18 13:12	01/24/18 09:56
Butanes	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
2-Butanol	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Cumene	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Cyclohexane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Dichloromethane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
1,4-Dioxane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
2-Ethoxyethanol	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethyl acetate	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Ethylene glycol	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethylene oxide	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethyl ether	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Heptane	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Hexanes	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Isopropyl acetate	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Methanol	< LOQ	100.0	ppm		01/23/18 13:12	01/24/18 09:56
Pentanes	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Propane	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
2-Propanol (IPA)	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Tetrahydrofuran	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Toluene	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56

LCS(1804017-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Acetonitrile	113	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Benzene	103	0.5000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Butane	116	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Butanes	116	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Butanol	105	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Cumene	105	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Cyclohexane	106	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Dichloromethane	108	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
1,4-Dimethylbenzene	99.3	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
1,4-Dioxane	112	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Ethoxyethanol	113	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethyl acetate	106	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control

Solvent Analysis (Continued)

Batch: 1804017 - 205 (Continued)

LCS(1804017-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl benzene	98.7	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethylene glycol	128	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethylene oxide	112	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethyl ether	109	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Heptane	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Hexane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Hexanes	106	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
iso-Butane	117	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Isopropyl acetate	106	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
iso-Pentane	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Methanol	109	100.0	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Methylpentane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
3-Methylpentane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
neo-Pentane	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Pentane	111	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Pentanes	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Propane	120	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Propanol (IPA)	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Tetrahydrofuran	108	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Toluene	104	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Tangie CO2 Oil Duplicate

OM Extracts

Sample ID: G8A0198-02

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

Results at a Glance

Total THC : 62.49 %

Pesticides : PASS

Residual Solvent Analysis : PASS

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil Duplicate

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

Sample ID: G8A0198-02

Matrix: Extracts and Concentrates

Test RFID: 0027

Source RFID: 1A4010300014ADD000000026

Potency Analysis

Date/Time Extracted: 01/24/18 11:18

Analysis Method/SOP: 215

Date/Time Analyzed: 01/24/18 18:19

Batch Identification: 1804024

Cannabinoids (% weight)	Decarboxylated* %	Cannabinoids Profile								
Total THC ((THCA*0.877)+Δ9)	62.49	<table border="1"> <tr><td>THCA</td><td>45.5</td></tr> <tr><td>delta 9-THC</td><td>22.6</td></tr> <tr><td>CBGA</td><td>1.4</td></tr> <tr><td>Total</td><td>69.5</td></tr> </table>	THCA	45.5	delta 9-THC	22.6	CBGA	1.4	Total	69.5
THCA	45.5									
delta 9-THC	22.6									
CBGA	1.4									
Total	69.5									
Total CBD ((CBDA*0.877)+CBD)	< LOQ									
THCA	45.48									
delta 9-THC	22.61									
delta 8-THC	< LOQ									
THCV	< LOQ									
CBGA	1.382									
CBDA	< LOQ									
CBD	< LOQ									
CBDV	< LOQ									
CBN	< LOQ									
CBG	< LOQ									
CBC	< LOQ									
Total Cannabinoids	69.47									

<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
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil Duplicate

Date Sampled: 01/22/18

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

Sample ID: G8A0198-02

Matrix: Extracts and Concentrates

Test RFID: 0027

Source RFID: 1A4010300014ADD000000026

Pesticide Analysis in PPM

Date/Time Extracted: 01/23/18 10:05

Date/Time GC Analyzed: 01/24/18 06:49

Analysis Method/SOP: 203

Date/Time LC Analyzed: 01/25/18 00:27

Batch Identification: 1804010

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	0.2	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

Eric Wendt
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil Duplicate

Date Sampled: 01/22/18

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

Sample ID: G8A0198-02

Matrix: Extracts and Concentrates

Test RFID: 0027

Source RFID: 1A4010300014ADD000000026

Pesticide Analysis in PPM

Date/Time Extracted: 01/23/18 10:05

Date/Time GC Analyzed: 01/24/18 06:49

Analysis Method/SOP: 203

Date/Time LC Analyzed: 01/25/18 00:27

Batch Identification: 1804010

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 insectide and molluscicide
Thiamethoxam	< LOQ	0.2	0.1	Neonicotinoid insectide
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.

Eric Wendt
 Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Tangie CO2 Oil Duplicate

Date Sampled: 01/22/18 00:00

Date Accepted: 01/22/18

Results Valid Until: 01/22/19

OM Extracts

Sample ID: G8A0198-02

Matrix: Extracts and Concentrates

Test RFID: 0027

Source RFID: 1A4010300014ADD000000026

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: 01/23/18 13:12

Date/Time Analyzed: 01/24/18 07:32

Analysis Method/SOP: 205

Batch Identification: 1804017

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 - 1/26/2018



Quality Control Potency

Batch: 1804024 - 215-Concentrates

Blank(1804024-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
delta 9-THC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
delta 8-THC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBGA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
THCV	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBDA	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBD	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBDV	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBN	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBG	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21
CBC	< LOQ	1.200	%		01/24/18 11:18	01/24/18 17:21

LCS(1804024-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	103	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
delta 9-THC	106	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
CBDA	110	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32
CBD	105	0.015	%	80-120	01/24/18 11:18	01/24/18 17:32

LCS(1804024-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	97.5	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
delta 9-THC	102	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
CBDA	105	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44
CBD	101	0.015	%	80-120	01/24/18 11:18	01/24/18 17:44

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control Pesticide Analysis

Batch: 1804010 - 203

Blank(1804010-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
DDVP (Dichlorvos)	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Acephate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Acequinocyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Acetamiprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Aldicarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Azoxystrobin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Bifenazate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Bifenthrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Boscalid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Carbaryl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Carbofuran	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Chlorantraniliprole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Chlorfenapyr	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Chlorpyrifos	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Clofentezine	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Cyfluthrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Cypermethrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Daminozide	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Diazinon	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Dimethoate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Ethoprophos	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Etofenprox	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Etoxazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fenoxycarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fenpyroximate	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fipronil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Fonicamid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Fludioxonil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Hexythiazox	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Imazalil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Imidacloprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Kresoxim-methyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Malathion	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Metalaxyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methiocarb	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methomyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Methyl parathion	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

Blank(1804010-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
MGK-264	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Myclobutanil	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Naled	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Oxamyl	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Paclobutrazol	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Permethrins	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Phosmet	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Piperonyl butoxide	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Prallethrin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Propiconazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 01:42
Propoxur	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Pyrethrins	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Pyridaben	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spinosad	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spiromesifen	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spirotetramat	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Spiroxamine	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Tebuconazole	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Thiacloprid	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Thiamethoxam	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17
Trifloxystrobin	< LOQ	0.1	ppm		01/23/18 10:05	01/24/18 21:17

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	64.3	0.1	ppm	7-141	01/23/18 10:05	01/24/18 21:30
DDVP (Dichlorvos)	77.1	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Acephate	78.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Acequinocyl	60.2	0.1	ppm	0-111	01/23/18 10:05	01/24/18 21:30
Acetamiprid	93.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Aldicarb	93.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Azoxystrobin	91.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Bifenazate	158	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Bifenthrin	73.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Boscalid	88.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Carbaryl	83.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Carbofuran	86.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Chlorantraniliprole	78.7	0.1	ppm	26-131	01/23/18 10:05	01/24/18 21:30
Chlorfenapyr	77.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Chlorpyrifos	85.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control

Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Clofentezine	55.2	0.1	ppm	35-118	01/23/18 10:05	01/24/18 21:30
Cyfluthrin	89.7	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Cypermethrin	93.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Daminozide	10.0	0.1	ppm	0-100	01/23/18 10:05	01/24/18 21:30
Diazinon	91.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Dimethoate	89.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Ethoprophos	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Etofenprox	74.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Etoxazole	77.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fenoxycarb	87.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fenpyroximate	69.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fipronil	85.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Flonicamid	91.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Fludioxonil	77.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Hexythiazox	79.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Imazalil	47.1	0.1	ppm	31-103	01/23/18 10:05	01/24/18 21:30
Imidacloprid	98.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Kresoxim-methyl	85.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Malathion	71.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Metalaxyl	76.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methiocarb	91.7	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methomyl	88.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Methyl parathion	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
MGK-264	81.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Myclobutanil	82.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Naled	75.1	0.1	ppm	0-103	01/23/18 10:05	01/24/18 02:04
Oxamyl	91.1	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Paclobutrazol	73.4	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Permethrins	90.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Phosmet	90.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Piperonyl butoxide	94.8	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Prallethrin	96.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Propiconazole	77.9	0.1	ppm	70-130	01/23/18 10:05	01/24/18 02:04
Propoxur	94.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Pyrethrins	98.6	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Pyridaben	79.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Spinosad	44.4	0.1	ppm	24-91	01/23/18 10:05	01/24/18 21:30
Spiromesifen	91.5	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30

Eric Wendt
Chief Science Officer - 1/26/2018



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Quality Control
Pesticide Analysis (Continued)

Batch: 1804010 - 203 (Continued)

LCS(1804010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Spirotetramat	89.2	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Spiroxamine	53.1	0.1	ppm	15-95	01/23/18 10:05	01/24/18 21:30
Tebuconazole	78.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Thiacloprid	89.0	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Thiamethoxam	89.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30
Trifloxystrobin	85.3	0.1	ppm	70-130	01/23/18 10:05	01/24/18 21:30

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control Solvent Analysis

Batch: 1804017 - 205

Blank(1804017-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Acetonitrile	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Benzene	< LOQ	0.5000	ppm		01/23/18 13:12	01/24/18 09:56
Butanes	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
2-Butanol	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Cumene	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Cyclohexane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Dichloromethane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
1,4-Dioxane	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
2-Ethoxyethanol	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethyl acetate	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Ethylene glycol	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethylene oxide	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Ethyl ether	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Heptane	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Hexanes	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Isopropyl acetate	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Methanol	< LOQ	100.0	ppm		01/23/18 13:12	01/24/18 09:56
Pentanes	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Propane	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
2-Propanol (IPA)	< LOQ	1000	ppm		01/23/18 13:12	01/24/18 09:56
Tetrahydrofuran	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56
Toluene	< LOQ	50.00	ppm		01/23/18 13:12	01/24/18 09:56

LCS(1804017-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Acetone	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Acetonitrile	113	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Benzene	103	0.5000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Butane	116	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Butanes	116	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Butanol	105	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Cumene	105	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Cyclohexane	106	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Dichloromethane	108	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
1,4-Dimethylbenzene	99.3	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
1,4-Dioxane	112	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Ethoxyethanol	113	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethyl acetate	106	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59

Eric Wendt
Chief Science Officer - 1/26/2018



Quality Control

Solvent Analysis (Continued)

Batch: 1804017 - 205 (Continued)

LCS(1804017-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Ethyl benzene	98.7	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethylene glycol	128	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethylene oxide	112	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Ethyl ether	109	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Heptane	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Hexane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Hexanes	106	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
iso-Butane	117	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Isopropyl acetate	106	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
iso-Pentane	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Methanol	109	100.0	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Methylpentane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
3-Methylpentane	109	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
neo-Pentane	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
n-Pentane	111	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Pentanes	112	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Propane	120	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
2-Propanol (IPA)	108	1000	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Tetrahydrofuran	108	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59
Toluene	104	50.00	ppm	70-130	01/23/18 13:12	01/23/18 18:59

Eric Wendt
Chief Science Officer - 1/26/2018