



New Hope Spectrum X 2000 mg CBD Full Spectrum Oil

Product Description: 2 ounce (60 mL) of 33 mg/mL CBD From Full Spectrum Hemp Oil

Formulation Date: 5/10/2019

Expiration Date: 5/20

Country of Origin: United States

Storage: Store in a cool, dry place away from light. Do not use if safety seal is broke

Packaging: 2 ounce glass amber bottle.

Disclaimers: Keep out of reach of children. No to be used during pregnancy or lactation. Please consult a physician before taking if you have a medical condition or are currently taking other medications.

Safety Warning: This product has not been evaluated by the United States Food and Drug Administration (FDA) and is not intended to diagnose, treat, cure or prevent any disease. This product contains <0.3% THC, compliant with the Federal Farm Bill.

Batch Information

Batch Size: 13.8 L

Quantity Produced: 230

Formulation

Ingredient	Manufacturer	Product No.	Lot No.
MCT Oil:	Kraft Chemical Co.	N/A	BTB1902013
All-Natural Lemon Flavoring	Bickford Flavors	N/A	LEMOSB1219
All-Natural Lime Flavoring	Bickford Flavors	N/A	LIMOSB1219
CO2 Extracted Full Spectrum Hemp Oil:	PHARM Xtracts, LLC	PX-DC-19007	PX-FS-19003

Test Results Summary

Cannabinoids

Cannabinoid	60 mL Total (mg)	Weight Percentage (%)	Concentration (mg/mL)
Total CBD	2287 mg	3.36%	38.1 mg/mL
Total THC	111 mg	0.163%	1.85 mg/mL

Other Testing

Residual Solvents:	None Detected	Salmonella:	None Detected
Heavy Metals:	None Detected	Escherichia coli:	None Detected
Pesticides:	Pass	Aspergillus:	None Detected
Mycotoxins:	None Detected		



PHARM CBD

PO Box 182 BEDFORD
KY, USA 40006
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SAMPLE:DA90514006-001

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Image



Safety

Pesticides - Passed
Microbials - Passed
Mycotoxins - Passed
Heavy Metals - Passed
Terpenes - Tested
Residual-Solvents - Passed
Filtth - Passed
Water Activity - NOT Tested
Moisture - NOT Tested

Cannabinoids

Analyte	Weight(%)	mg/g
D9-THC	0.165	1.650
THCa	ND	ND
TOTAL THC	0.165	1.650
CBD	3.398	33.980
CBDa	ND	ND
TOTAL CBD	3.398	33.980
CBN	ND	ND
CBDV	0.011	0.110
D8-THC	ND	ND
THCV	ND	ND
CBG	0.024	0.240
CBGa	ND	ND
CBC	0.117	1.170
TOTAL CANNABINOIDS	3.715	37.150

Cannabinoids

0.165% Total THC	3.398% Total CBD
99.00 mg THC/Container	2038.80 mg CBD/Container



Jorge Segredo
Lab Director

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Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Terpenes

Test result %

alpha-Cedrene	ND	
alpha-Humulene	ND	
alpha-Pinene	ND	
alpha-Terpinene	ND	
beta-Myrcene	ND	
beta-Pinene	ND	
Borneol	ND	
Camphene	ND	
Camphor	ND	
Caryophyllene oxide	ND	
Cedrol	ND	
alpha-Bisabolol	0.105	█
Isopulegol	ND	
cis-Nerolidol	ND	
3-Carene	ND	
Fenchyl Alcohol	ND	
Hexahydrothymol	ND	
Eucalyptol	ND	
Isoborneol	ND	
Farnesene	0.122	█
Fenchone	ND	
gamma-Terpinene	ND	
Geraniol	ND	
Geranyl acetate	ND	
Guaiol	ND	
Limonene	0.401	█
Linalool	ND	
Nerol	ND	
Ocimene	ND	
alpha-Phellandrene	ND	
Pulegone	ND	
Sabinene	ND	
Sabinene hydrate	ND	
Terpineol	ND	
Terpinolene	ND	
trans-Caryophyllene	0.108	█
trans-Nerolidol	ND	
Valencene	ND	
Total	0.74	█



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Pesticides	LOQ	Action Level	Result	Units	Type
Daminozide	0.02	1	ND	ppm	Plant growth regulator
Acephate	0.01	0.4	ND	ppm	Insecticide
Flonicamid	0.01	1	ND	ppm	Pyridine Insecticide, Aphicide
Oxamyl	0.01	1	ND	ppm	Carbamate Insecticide, Acaricide, Nematicide
Methomyl	0.01	0.4	ND	ppm	Carbamate Insecticide, Acaricide, Metabolite
Thiamethoxam	0.01	0.2	ND	ppm	Neonicotinoid Insecticide
Imidacloprid	0.01	0.4	ND	ppm	Neonicotinoid Insecticide
Dimethoate	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Acetamiprid	0.01	0.2	ND	ppm	Insecticide
Thiacloprid	0.01	0.2	ND	ppm	Neonicotinoid Insecticide, Molluscicide
Aldicarb	0.02	0.4	ND	ppm	Insecticide, Nematicide
Dichlorvos	0.05	0.1	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Propoxur	0.01	0.2	ND	ppm	Carbamate Insecticide, Acaricide
Carbofuran	0.01	0.2	ND	ppm	Insecticide, Nematicide
Carbaryl	0.01	0.2	ND	ppm	Insecticide
Imazalil	0.01	0.2	ND	ppm	Imidazole Fungicide
Metalaxyl	0.01	0.2	ND	ppm	Phenylamide Fungicide
Chlorantraniliprole	0.01	0.2	ND	ppm	Insecticide
Phosmet	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Spiroxamine	0.01	0.4	ND	ppm	Morpholine Fungicide
Naled	0.01	0.5	ND	ppm	Organophosphate Insecticide, Acaricide
Methiocarb	0.01	0.2	ND	ppm	Carbamate Insecticide, Molluscicide, Bird repellent
Azoxystrobin	0.01	0.2	ND	ppm	Fungicide
Paclobutrazol	0.01	0.4	ND	ppm	Triazole Plant growth regulator; Fungicide
Malathion	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Myclobutanil	0.01	0.2	ND	ppm	Triazole Fungicide
Bifenazate	0.01	0.2	ND	ppm	Insecticide
Spirotetramat	0.02	0.2	ND	ppm	Tetramic acid Insecticide
Ethoprophos	0.01	0.2	ND	ppm	Insecticide, Nematicide
Fenoxycarb	0.01	0.2	ND	ppm	Carbamate Insecticide
Kresoxim-methyl	0.01	0.4	ND	ppm	Strobilurin Fungicide, Bactericide
Tebuconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Diazanone	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Repellent

Jorge Segredo
Lab Director

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Batch#: 19025, Sample Size: 15 mL -grams
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Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Result	Units	Type
Propiconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Clofentezine	0.01	0.2	ND	ppm	Tetrazine Acaricide
Spinosad (Spinosyn A)	0.01	0.2	ND	ppm	Insecticide
Prallethrin	0.05	0.2	ND	ppm	Synthetic pyrethroid Insecticide
Trifloxystrobin	0.01	0.2	ND	ppm	Strobilurin Fungicide
Piperonyl butoxide	0.01	3	0.08	ppm	Cyclic aromatic; Performance enhancer, Synergist
Chlorpyrifos	0.01	0.2	0.05	ppm	Organophosphate Insecticide
Hexythiazox	0.01	1	ND	ppm	Carboxamide Acaricide
Etoxadole	0.01	0.2	ND	ppm	Diphenyl oxazoline Acaricide
Spiromesifen	0.01	0.2	ND	ppm	Tetronic acid Insecticide
Pyrethrins (Pyrethrin I)	0.01	1	ND	ppm	Insecticide
Fenpyroximate	0.01	0.4	ND	ppm	Pyrazolium Acaricide, Insecticide
Pyridaben	0.01	0.2	ND	ppm	Pyridazinone Insecticide, Acaricide
Permethrins	0.05	0.2	ND	ppm	Pyrethroid Insecticide
Abamectin B1a	0.02	0.5	ND	ppm	Insecticide
Etofenprox	0.01	0.4	ND	ppm	Pyrethroid Insecticide
Bifenthrin	0.01	0.2	ND	ppm	Acaricide, Insecticide
Fludioxonil	0.01	0.4	ND	ppm	Phenylpyrrole Fungicide
Fipronil	0.02	0.4	ND	ppm	Phenylpyrazole Insecticide
Cypermethrin	0.02	1	ND	ppm	Pyrethroid Insecticide, Veterinary substance
Mevinphos	0.01	0.1	ND	ppm	Organophosphate Insecticide, Acaricide
Dimethomorph	0.01	0.1	ND	ppm	Morpholine Fungicide
Coumaphos	0.01	0.2	ND	ppm	Insecticide
Spinosad (Spinosyn D)	0.01	0.2	ND	ppm	Insecticide



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Residual solvent

Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
Hexanes (2,3-dimethylbutane)	290	Pass	ND
1,4-Dioxane	380	Pass	ND
Pentanes (iso-pentane)	5000	Pass	ND
Pentanes (neo-pentane)	5000	Pass	ND
Butanes (iso-butane)	5000	Pass	ND
2-Butanol	5000	Pass	ND
2-Ethoxyethanol	160	Pass	ND
2-Propanol	5000	Pass	ND
Acetone	5000	Pass	ND
Acetonitrile	410	Pass	ND
Benzene	1	Pass	ND
Butanes (n-butane)	5000	Pass	ND
Cyclohexane	3880	Pass	ND
Dichloromethane	600	Pass	ND
Hexanes (2,2-dimethylbutane)	290	Pass	ND
Xylenes-O (1,2-dimethylbenzene)	2170	Pass	ND
Xylenes-M (1,3-dimethylbenzene)	2170	Pass	ND
Xylenes-P (1,4-dimethylbenzene)	2170	Pass	ND
Ethanol	5000	Pass	ND
Ethyl acetate	5000	Pass	ND
Ethylbenzene	2170	Pass	ND
Ethyl ether	5000	Pass	ND
Ethylene Oxide	50	Pass	ND
Heptane	5000	Pass	ND
n-Hexane	290	Pass	ND
Isopropyl acetate	5000	Pass	ND
Methanol	3000	Pass	ND
Hexanes (2-methylpentane)	290	Pass	ND
Hexanes (3-methylpentane)	290	Pass	ND
Pentanes (n-pentane)	5000	Pass	ND
Propane	5000	Pass	ND
Tetrahydrofuran	720	Pass	ND
Toluene	1068	Pass	ND
Xylenes	2170	Pass	ND

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Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, SOP.T.30.050

Reagent LOT ID
051319.R33
050919.R02
050919.R01

Dilution
10

Analytical Batch:DA003338

Consumables Id
180711
SFN-BX-1025
850C4-850AK
840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

Filth and foreign Materials-Analysis Method :SOP.T.40.013

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

Analyte

Results

Aflatoxin G2
Aflatoxin G1
Aflatoxin B2
Aflatoxin B1
Ochratoxin A+

ND
ND
ND
ND
ND

Analytical Batch:DA003330

Action Level

0.02
0.02
0.02
0.02
0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Micro Analysis-Analysis method :SOP.T.40.043

Analytical Batch: DA003331

Pathogens

Aspergillus_terreus_1J2
Aspergillus_niger
Aspergillus_fumigatus
Aspergillus_flavus
Salmonella_specific_gene
Escherichia_coli_Shigella_spp_

Results

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.





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Batch#: 19025, Sample Size: 15 mL -grams
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Sampling Method: SOP Client Method

Pesticide Analysis-Analysis Method:SOP.T.30.065, SOP.T.40.065

Reagent LOT/ID	Dilution
050919.R04	1

Analytical Batch :DA003326

Consumables ID
180711
280653964

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMS).

Heavy Metals Analysis-Analysis-Method:SOP.T.40.050, SOP.T.30.052

Reagent LOT/ID	Dilution
050319.R24	50
051319.R02	
051019.R11	
040219.21	
051419.R21	
051419.R22	
050919.R23	
051319.R05	
051419.R23	
051419.R24	
051419.R25	
051419.R26	
050119.R06	
041019.21	

Analytical Batch: DA003337

Consumables ID

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Metal	Result	Action-Level
Arsenic	ND	1.500
Cadmium	ND	0.500
Lead	ND	0.500
Mercury	ND	3

Abbreviation:ppm=Parts Per Million

Residual SolventsAnalysis Method:SOP.T.40.032

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

Analytical Batch :DA003336

Terpenes screening-Analysis-Method:SOP.T.40.090

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.

Analytical Batch :DA003335





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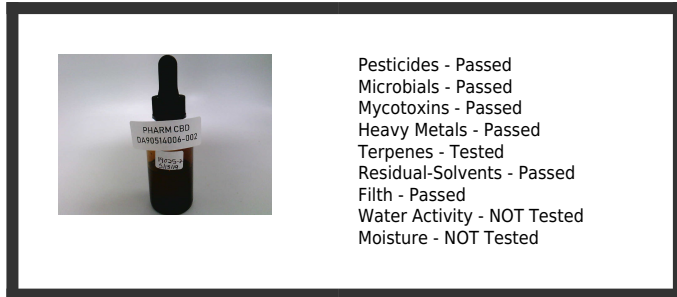
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SAMPLE:DA90514006-002

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
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Sampling Method: SOP Client Method

Image



Safety

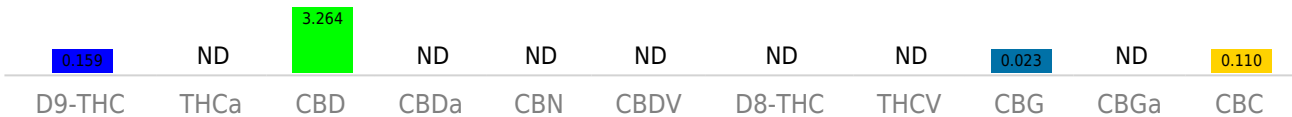
Pesticides - Passed
Microbials - Passed
Mycotoxins - Passed
Heavy Metals - Passed
Terpenes - Tested
Residual-Solvents - Passed
Filtth - Passed
Water Activity - NOT Tested
Moisture - NOT Tested

Cannabinoids

Analyte	Weight(%)	mg/g
D9-THC	0.159	1.590
THCa	ND	ND
TOTAL THC	0.159	1.590
CBD	3.264	32.640
CBDa	ND	ND
TOTAL CBD	3.264	32.640
CBN	ND	ND
CBDV	ND	ND
D8-THC	ND	ND
THCV	ND	ND
CBG	0.023	0.230
CBGa	ND	ND
CBC	0.110	1.100
TOTAL CANNABINOIDS	3.555	35.560

Cannabinoids

0.159% Total THC	3.264% Total CBD
95.40 mg THC/Container	1958.40 mg CBD/Container



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Terpenes

Test result %

alpha-Cedrene	ND
alpha-Humulene	ND
alpha-Pinene	ND
alpha-Terpinene	ND
beta-Myrcene	ND
beta-Pinene	ND
Borneol	ND
Camphene	ND
Camphor	ND
Caryophyllene oxide	ND
Cedrol	ND
alpha-Bisabolol	ND
Isopulegol	ND
cis-Nerolidol	ND
3-Carene	ND
Fenchyl Alcohol	ND
Hexahydrothymol	ND
Eucalyptol	ND
Isoborneol	ND
Farnesene	0.150
Fenchone	ND
gamma-Terpinene	ND
Geraniol	ND
Geranyl acetate	ND
Guaiol	ND
Limonene	ND
Linalool	ND
Nerol	ND
Ocimene	ND
alpha-Phellandrene	ND
Pulegone	ND
Sabinene	ND
Sabinene hydrate	ND
Terpineol	ND
Terpinolene	ND
trans-Caryophyllene	0.128
trans-Nerolidol	ND
Valencene	ND
Total	0.28





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Pesticides	LOQ	Action Level	Result	Units	Type
Daminozide	0.02	1	ND	ppm	Plant growth regulator
Acephate	0.01	0.4	ND	ppm	Insecticide
Flonicamid	0.01	1	ND	ppm	Pyridine Insecticide, Aphicide
Oxamyl	0.01	1	ND	ppm	Carbamate Insecticide, Acaricide, Nematicide
Methomyl	0.01	0.4	ND	ppm	Carbamate Insecticide, Acaricide, Metabolite
Thiamethoxam	0.01	0.2	ND	ppm	Neonicotinoid Insecticide
Imidacloprid	0.01	0.4	ND	ppm	Neonicotinoid Insecticide
Dimethoate	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Acetamiprid	0.01	0.2	ND	ppm	Insecticide
Thiacloprid	0.01	0.2	ND	ppm	Neonicotinoid Insecticide, Molluscicide
Aldicarb	0.02	0.4	ND	ppm	Insecticide, Nematicide
Dichlorvos	0.05	0.1	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Propoxur	0.01	0.2	ND	ppm	Carbamate Insecticide, Acaricide
Carbofuran	0.01	0.2	ND	ppm	Insecticide, Nematicide
Carbaryl	0.01	0.2	ND	ppm	Insecticide
Imazalil	0.01	0.2	ND	ppm	Imidazole Fungicide
Metalaxyl	0.01	0.2	ND	ppm	Phenylamide Fungicide
Chlorantraniliprole	0.01	0.2	ND	ppm	Insecticide
Phosmet	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Spiroxamine	0.01	0.4	ND	ppm	Morpholine Fungicide
Naled	0.01	0.5	ND	ppm	Organophosphate Insecticide, Acaricide
Methiocarb	0.01	0.2	ND	ppm	Carbamate Insecticide, Molluscicide, Bird repellent
Azoxystrobin	0.01	0.2	ND	ppm	Fungicide
Paclobutrazol	0.01	0.4	ND	ppm	Triazole Plant growth regulator; Fungicide
Malathion	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Myclobutanil	0.01	0.2	ND	ppm	Triazole Fungicide
Bifenazate	0.01	0.2	ND	ppm	Insecticide
Spirotetramat	0.02	0.2	ND	ppm	Tetramic acid Insecticide
Ethoprophos	0.01	0.2	ND	ppm	Insecticide, Nematicide
Fenoxycarb	0.01	0.2	ND	ppm	Carbamate Insecticide
Kresoxim-methyl	0.01	0.4	ND	ppm	Strobilurin Fungicide, Bactericide
Tebuconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Diazanone	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Repellent



PHARM CBD

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SAMPLE:DA90514006-002

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Result	Units	Type
Propiconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Clofentezine	0.01	0.2	ND	ppm	Tetrazine Acaricide
Spinosad (Spinosyn A)	0.01	0.2	ND	ppm	Insecticide
Prallethrin	0.05	0.2	ND	ppm	Synthetic pyrethroid Insecticide
Trifloxystrobin	0.01	0.2	ND	ppm	Strobilurin Fungicide
Piperonyl butoxide	0.01	3	0.07	ppm	Cyclic aromatic; Performance enhancer, Synergist
Chlorpyrifos	0.01	0.2	0.05	ppm	Organophosphate Insecticide
Hexythiazox	0.01	1	ND	ppm	Carboxamide Acaricide
Etoxadole	0.01	0.2	ND	ppm	Diphenyl oxazoline Acaricide
Spiromesifen	0.01	0.2	ND	ppm	Tetronic acid Insecticide
Pyrethrins (Pyrethrin I)	0.01	1	ND	ppm	Insecticide
Fenpyroximate	0.01	0.4	ND	ppm	Pyrazolium Acaricide, Insecticide
Pyridaben	0.01	0.2	ND	ppm	Pyridazinone Insecticide, Acaricide
Permethrins	0.05	0.2	ND	ppm	Pyrethroid Insecticide
Abamectin B1a	0.02	0.5	ND	ppm	Insecticide
Etofenprox	0.01	0.4	ND	ppm	Pyrethroid Insecticide
Bifenthrin	0.01	0.2	ND	ppm	Acaricide, Insecticide
Fludioxonil	0.01	0.4	ND	ppm	Phenylpyrrole Fungicide
Fipronil	0.02	0.4	ND	ppm	Phenylpyrazole Insecticide
Cypermethrin	0.02	1	ND	ppm	Pyrethroid Insecticide, Veterinary substance
Mevinphos	0.01	0.1	ND	ppm	Organophosphate Insecticide, Acaricide
Dimethomorph	0.01	0.1	ND	ppm	Morpholine Fungicide
Coumaphos	0.01	0.2	ND	ppm	Insecticide
Spinosad (Spinosyn D)	0.01	0.2	ND	ppm	Insecticide



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SAMPLE:DA90514006-002

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
Hexanes (2,3-dimethylbutane)	290	Pass	ND
1,4-Dioxane	380	Pass	ND
Pentanes (iso-pentane)	5000	Pass	ND
Pentanes (neo-pentane)	5000	Pass	ND
Butanes (iso-butane)	5000	Pass	ND
2-Butanol	5000	Pass	ND
2-Ethoxyethanol	160	Pass	ND
2-Propanol	5000	Pass	ND
Acetone	5000	Pass	ND
Acetonitrile	410	Pass	ND
Benzene	1	Pass	ND
Butanes (n-butane)	5000	Pass	ND
Cyclohexane	3880	Pass	ND
Dichloromethane	600	Pass	ND
Hexanes (2,2-dimethylbutane)	290	Pass	ND
Xylenes-O (1,2-dimethylbenzene)	2170	Pass	ND
Xylenes-M (1,3-dimethylbenzene)	2170	Pass	ND
Xylenes-P (1,4-dimethylbenzene)	2170	Pass	ND
Ethanol	5000	Pass	ND
Ethyl acetate	5000	Pass	ND
Ethylbenzene	2170	Pass	ND
Ethyl ether	5000	Pass	ND
Ethylene Oxide	50	Pass	ND
Heptane	5000	Pass	ND
n-Hexane	290	Pass	ND
Isopropyl acetate	5000	Pass	ND
Methanol	3000	Pass	ND
Hexanes (2-methylpentane)	290	Pass	ND
Hexanes (3-methylpentane)	290	Pass	ND
Pentanes (n-pentane)	5000	Pass	ND
Propane	5000	Pass	ND
Tetrahydrofuran	720	Pass	ND
Toluene	1068	Pass	ND
Xylenes	2170	Pass	ND

Jorge Segredo
Lab Director

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SAMPLE:DA90514006-002

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, SOP.T.30.050

Reagent LOT ID
051319.R33
050919.R02
050919.R01

Dilution
10

Analytical Batch:DA003338

Consumables Id
180711
SFN-BX-1025
850C4-850AK
840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

Filth and foreign Materials-Analysis Method :SOP.T.40.013

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

Analyte

Results

Aflatoxin G2
Aflatoxin G1
Aflatoxin B2
Aflatoxin B1
Ochratoxin A+

ND
ND
ND
ND
ND

Analytical Batch:DA003330

Action Level

0.02
0.02
0.02
0.02
0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Micro Analysis-Analysis method :SOP.T.40.043

Pathogens

Aspergillus flavus
Aspergillus fumigatus
Aspergillus niger
Aspergillus terreus 1J2
Escherichia coli specific gene
Escherichia coli/Shigella spp.
Salmonella specific gene
stx1 gene
stx2 gene

Results

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Analytical Batch: DA003331

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.





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SAMPLE:DA90514006-002

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticide Analysis-Analysis Method:SOP.T.30.065, SOP.T.40.065

Reagent LOT/ID	Dilution
050919.R04	1

Analytical Batch :DA003326

Consumables ID
180711
280653964

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMS).

Heavy Metals Analysis-Analysis-Method:SOP.T.40.050, SOP.T.30.052

Reagent LOT/ID	Dilution
050319.R24	50
051319.R02	
051019.R11	
040219.21	
051419.R21	
051419.R22	
050919.R23	
051319.R05	
051419.R23	
051419.R24	
051419.R25	
051419.R26	
050119.R06	
041019.21	

Analytical Batch: DA003337

Consumables ID

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Metal	Result	Action-Level
Arsenic	ND	1.500
Cadmium	ND	0.500
Lead	ND	0.500
Mercury	ND	3

Abbreviation:ppm=Parts Per Million

Residual SolventsAnalysis Method:SOP.T.40.032

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

Analytical Batch :DA003336

Terpenes screening-Analysis-Method:SOP.T.40.090

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.

Analytical Batch :DA003335





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SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Image



Safety

Pesticides - Passed
Microbials - Passed
Mycotoxins - Passed
Heavy Metals - Passed
Terpenes - Tested
Residual-Solvents - Passed
Filtth - Passed
Water Activity - NOT Tested
Moisture - NOT Tested

Cannabinoids

Analyte	Weight(%)	mg/g
D9-THC	0.165	1.650
THCa	ND	ND
TOTAL THC	0.165	1.650
CBD	3.402	34.020
CBDa	ND	ND
TOTAL CBD	3.402	34.020
CBN	ND	ND
CBDV	ND	ND
D8-THC	ND	ND
THCV	ND	ND
CBG	0.023	0.230
CBGa	ND	ND
CBC	0.115	1.150
TOTAL CANNABINOIDS	3.705	37.050

Cannabinoids

0.165% Total THC	3.402% Total CBD
98.40 mg THC/Container	2041.2 mg CBD/Container

0.165	ND	3.402	ND	ND	ND	ND	ND	0.023	ND	0.115
D9-THC	THCa	CBD	CBDa	CBN	CBDV	D8-THC	THCV	CBG	CBGa	CBC

Jorge Segredo
Lab Director

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SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Terpenes

Test result %

alpha-Cedrene	ND	
alpha-Humulene	0.026	■
alpha-Pinene	ND	
alpha-Terpinene	ND	
beta-Myrcene	ND	
beta-Pinene	ND	
Borneol	ND	
Camphene	ND	
Camphor	ND	
Caryophyllene oxide	ND	
Cedrol	ND	
alpha-Bisabolol	0.120	■
Isopulegol	ND	
cis-Nerolidol	ND	
3-Carene	ND	
Fenchyl Alcohol	ND	
Hexahydrothymol	ND	
Eucalyptol	ND	
Isoborneol	ND	
Farnesene	0.170	■
Fenchone	ND	
gamma-Terpinene	ND	
Geraniol	ND	
Geranyl acetate	ND	
Guaiol	ND	
Limonene	0.446	■
Linalool	ND	
Nerol	ND	
Ocimene	ND	
alpha-Phellandrene	ND	
Pulegone	ND	
Sabinene	ND	
Sabinene hydrate	ND	
Terpineol	ND	
Terpinolene	ND	
trans-Caryophyllene	0.132	■
trans-Nerolidol	ND	
Valencene	ND	
Total	0.89	■

Jorge Segredo
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METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Result	Units	Type
Daminozide	0.02	1	ND	ppm	Plant growth regulator
Acephate	0.01	0.4	ND	ppm	Insecticide
Flonicamid	0.01	1	ND	ppm	Pyridine Insecticide, Aphicide
Oxamyl	0.01	1	ND	ppm	Carbamate Insecticide, Acaricide, Nematicide
Methomyl	0.01	0.4	ND	ppm	Carbamate Insecticide, Acaricide, Metabolite
Thiamethoxam	0.01	0.2	ND	ppm	Neonicotinoid Insecticide
Imidacloprid	0.01	0.4	ND	ppm	Neonicotinoid Insecticide
Dimethoate	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Acetamiprid	0.01	0.2	ND	ppm	Insecticide
Thiacloprid	0.01	0.2	ND	ppm	Neonicotinoid Insecticide, Molluscicide
Aldicarb	0.02	0.4	ND	ppm	Insecticide, Nematicide
Dichlorvos	0.05	0.1	ND	ppm	Organophosphate Insecticide, Acaricide, Metabolite
Propoxur	0.01	0.2	ND	ppm	Carbamate Insecticide, Acaricide
Carbofuran	0.01	0.2	ND	ppm	Insecticide, Nematicide
Carbaryl	0.01	0.2	ND	ppm	Insecticide
Imazalil	0.01	0.2	ND	ppm	Imidazole Fungicide
Metalaxyl	0.01	0.2	ND	ppm	Phenylamide Fungicide
Chlorantraniliprole	0.01	0.2	ND	ppm	Insecticide
Phosmet	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Spiroxamine	0.01	0.4	ND	ppm	Morpholine Fungicide
Naled	0.01	0.5	ND	ppm	Organophosphate Insecticide, Acaricide
Methiocarb	0.01	0.2	ND	ppm	Carbamate Insecticide, Molluscicide, Bird repellent
Azoxystrobin	0.01	0.2	ND	ppm	Fungicide
Paclobutrazol	0.01	0.4	ND	ppm	Triazole Plant growth regulator; Fungicide
Malathion	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide
Myclobutanil	0.01	0.2	ND	ppm	Triazole Fungicide
Bifenazate	0.01	0.2	ND	ppm	Insecticide
Spirotetramat	0.02	0.2	ND	ppm	Tetramic acid Insecticide
Ethoprophos	0.01	0.2	ND	ppm	Insecticide, Nematicide
Fenoxycarb	0.01	0.2	ND	ppm	Carbamate Insecticide
Kresoxim-methyl	0.01	0.4	ND	ppm	Strobilurin Fungicide, Bactericide
Tebuconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Diazanone	0.01	0.2	ND	ppm	Organophosphate Insecticide, Acaricide, Repellent

Jorge Segredo
Lab Director

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SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Result	Units	Type
Propiconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Clofentezine	0.01	0.2	ND	ppm	Tetrazine Acaricide
Spinosad (Spinosyn A)	0.01	0.2	ND	ppm	Insecticide
Prallethrin	0.05	0.2	ND	ppm	Synthetic pyrethroid Insecticide
Trifloxystrobin	0.01	0.2	ND	ppm	Strobilurin Fungicide
Piperonyl butoxide	0.01	3	0.07	ppm	Cyclic aromatic; Performance enhancer, Synergist
Chlorpyrifos	0.01	0.2	0.05	ppm	Organophosphate Insecticide
Hexythiazox	0.01	1	ND	ppm	Carboxamide Acaricide
Etoxadole	0.01	0.2	ND	ppm	Diphenyl oxazoline Acaricide
Spiromesifen	0.01	0.2	ND	ppm	Tetronic acid Insecticide
Pyrethrins (Pyrethrin I)	0.01	1	ND	ppm	Insecticide
Fenpyroximate	0.01	0.4	ND	ppm	Pyrazolium Acaricide, Insecticide
Pyridaben	0.01	0.2	ND	ppm	Pyridazinone Insecticide, Acaricide
Permethrins	0.05	0.2	ND	ppm	Pyrethroid Insecticide
Abamectin B1a	0.02	0.5	ND	ppm	Insecticide
Etofenprox	0.01	0.4	ND	ppm	Pyrethroid Insecticide
Bifenthrin	0.01	0.2	ND	ppm	Acaricide, Insecticide
Fludioxonil	0.01	0.4	ND	ppm	Phenylpyrrole Fungicide
Fipronil	0.02	0.4	ND	ppm	Phenylpyrazole Insecticide
Cypermethrin	0.02	1	ND	ppm	Pyrethroid Insecticide, Veterinary substance
Mevinphos	0.01	0.1	ND	ppm	Organophosphate Insecticide, Acaricide
Dimethomorph	0.01	0.1	ND	ppm	Morpholine Fungicide
Coumaphos	0.01	0.2	ND	ppm	Insecticide
Spinosad (Spinosyn D)	0.01	0.2	ND	ppm	Insecticide



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SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Residual solvent

Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
Hexanes (2,3-dimethylbutane)	290	Pass	ND
1,4-Dioxane	380	Pass	ND
Pentanes (iso-pentane)	5000	Pass	ND
Pentanes (neo-pentane)	5000	Pass	ND
Butanes (iso-butane)	5000	Pass	ND
2-Butanol	5000	Pass	ND
2-Ethoxyethanol	160	Pass	ND
2-Propanol	5000	Pass	ND
Acetone	5000	Pass	ND
Acetonitrile	410	Pass	ND
Benzene	1	Pass	ND
Butanes (n-butane)	5000	Pass	ND
Cyclohexane	3880	Pass	ND
Dichloromethane	600	Pass	ND
Hexanes (2,2-dimethylbutane)	290	Pass	ND
Xylenes-O (1,2-dimethylbenzene)	2170	Pass	ND
Xylenes-M (1,3-dimethylbenzene)	2170	Pass	ND
Xylenes-P (1,4-dimethylbenzene)	2170	Pass	ND
Ethanol	5000	Pass	ND
Ethyl acetate	5000	Pass	ND
Ethylbenzene	2170	Pass	ND
Ethyl ether	5000	Pass	ND
Ethylene Oxide	50	Pass	ND
Heptane	5000	Pass	ND
n-Hexane	290	Pass	ND
Isopropyl acetate	5000	Pass	ND
Methanol	3000	Pass	ND
Hexanes (2-methylpentane)	290	Pass	ND
Hexanes (3-methylpentane)	290	Pass	ND
Pentanes (n-pentane)	5000	Pass	ND
Propane	5000	Pass	ND
Tetrahydrofuran	720	Pass	ND
Toluene	1068	Pass	ND
Xylenes	2170	Pass	ND

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SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, SOP.T.30.050

Reagent LOT ID
051319.R33
050919.R02
050919.R01

Dilution
10

Analytical Batch:DA003338

Consumables Id
180711
SFN-BX-1025
850C4-850AK
840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

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This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

Analyte

Results

Aflatoxin G2
Aflatoxin G1
Aflatoxin B2
Aflatoxin B1
Ochratoxin A+

ND
ND
ND
ND
ND

Analytical Batch:DA003330

Action Level

0.02
0.02
0.02
0.02
0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Micro Analysis-Analysis method :SOP.T.40.043

Analytical Batch: DA003331

Pathogens

Aspergillus_terreus_1J2
Aspergillus_niger
Aspergillus_fumigatus
Aspergillus_flavus
Salmonella_specific_gene
Escherichia_coli_Shigella_spp_

Results

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.





PHARM CBD

PO Box 182 BEDFORD
KY, USA 40006
(860) 810-5594
BBUTLER@PHARM-CBD.COM



SAMPLE:DA90514006-003

METRC/Biotrack#1 dropper bottle **Harvest/Lot ID: 19025**
Batch#: 19025, Sample Size: 15 mL -grams
Ordered: 05/13/19 Sampled:05/10/19
Completed: 05/15/19 Expires: 05/15/20
Sampling Method: SOP Client Method

Pesticide Analysis-Analysis Method:SOP.T.30.065, SOP.T.40.065

Reagent LOT/ID	Dilution
050919.R04	1

Analytical Batch :DA003326

Consumables ID
180711
280653964

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMS).

Heavy Metals Analysis-Analysis-Method:SOP.T.40.050, SOP.T.30.052

Reagent LOT/ID	Dilution
050319.R24	50
051319.R02	
051019.R11	
040219.21	
051419.R21	
051419.R22	
050919.R23	
051319.R05	
051419.R23	
051419.R24	
051419.R25	
051419.R26	
050119.R06	
041019.21	

Analytical Batch: DA003337

Consumables ID

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Metal	Result	Action-Level
Arsenic	ND	1.500
Cadmium	ND	0.500
Lead	ND	0.500
Mercury	ND	3

Abbreviation:ppm=Parts Per Million

Residual SolventsAnalysis Method:SOP.T.40.032

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

Analytical Batch :DA003336

Terpenes screening-Analysis-Method:SOP.T.40.090

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.

Analytical Batch :DA003335

