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CERTIFICATE OF ANALYSIS

Client information

Ostara Medical
5331 Avenue Pierre Dansereau
Salaberry de Valleyfield, Canada, J6S 6A2

COA information

COA number	**240312_99293_PAR27666**
COA Date	**12-Mar-2024**
Analysis Request ID	**PAR27666**

Sample information

Sample Name	**GCK-003**	Sample Receiving Date	**08-Mar-2024**
Sample ID	**GCK-003**	Receiving Temperature	**20.3°C**
Laboratory ID	**PAT82585**		

Results information

Analysis Date	Test	Method Ref.	Results	Units
11-Mar-2024	**Moisture**	PAT-AM-023(USP <731>)	**13.87**	%

Authorized by: Laboratory Manager

Signature:

Details of testing

1. *Results only apply to the items tested and to the sample(s) as received.*
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Sample information

Sample Name	**GCK-003**	Sample Receiving Date	**08-Mar-2024**
Sample ID	**GCK-003**	Receiving Temperature	**20.3°C**
Laboratory ID	**PAT82585**	Analysis Date	**12-Mar-2024**
Method Ref.	**PAT-AM-019**		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	<0.050	<0.500	0.050
CBD	<0.050	<0.500	0.050
CBDA	0.078	0.780	0.050
CBDV	<0.050	<0.500	0.050
CBG	0.193	1.930	0.050
CBGA	1.191	11.910	0.050
CBN	<0.050	<0.500	0.050
D8-THC	<0.050	<0.500	0.050
D9-THC	0.725	7.250	0.050
THCA-A	35.559	355.590	0.050
THCV	<0.050	<0.500	0.050
Total THC	**31.910**	**319.100**	**0.050**
Total CBD	**0.068**	**0.680**	**0.050**

31.910%
Total THC

0.068%
Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877)
Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step.

Authorized by: Laboratory Manager

Signature:

Details of testing

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2. *% w/w: percent (weight of analyte/ weight of product)*
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CERTIFICATE OF ANALYSIS

Client information

Ostara Medical
5331 Avenue Pierre Dansereau
Salaberry de Valleyfield, Canada, J6S 6A2

COA information

COA number	**240314_99548_PAR27666**
COA Date	**14-Mar-2024**
Analysis Request ID	**PAR27666**

Sample information

Sample Name	**GCK-003**	Sample Receiving Date	**08-Mar-2024**
Sample ID	**GCK-003**	Receiving Temperature	**20.3°C**
Laboratory ID	**PAT82585**	Analysis Date	**12-Mar-2024**
Method Ref.	**PAT-AM-022**		

Terpenes Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
beta-Myrcene	1.666	16.660	0.001
Selina-3,7(11)-diene	0.328	3.280	0.001
beta-Caryophyllene	0.310	3.100	0.001
D-Limonene	0.246	2.460	0.001
Linalool	0.196	1.960	0.001
alpha-Humulene	0.149	1.490	0.001
Farnesene 1	0.114	1.140	0.005
beta-Pinene	0.067	0.670	0.001
trans-beta-Ocimene	0.047	0.470	0.001
alpha-Selinene	0.046	0.460	0.001
beta-Selinene	0.042	0.420	0.001
Farnesene 4	0.037	0.370	0.005
(-)-alpha-Bisabolol	0.030	0.300	0.001
Farnesene 3	0.028	0.280	0.005
1R-endo-Fenchyl-Alcohol	0.027	0.270	0.001
alpha-Pinene	0.026	0.260	0.001
alpha-Terpineol	0.024	0.240	0.001
cis-Nerolidol	0.017	0.170	0.001
trans-beta-Farnesene	0.014	0.140	0.001
Squalene	0.011	0.110	0.001
Caryophyllene Oxide	0.009	0.090	0.001
Farnesene 2	0.009	0.090	0.005
Camphene	0.007	0.070	0.001
Valencene	0.007	0.070	0.001
1,8-Cineole (Eucalyptol)	0.006	0.060	0.001
cis-beta-Ocimene	<0.005	<0.050	0.005
Farnesene 5	<0.005	<0.050	0.005
Geraniol	0.005	0.050	0.001
Terpinolene	0.005	0.050	0.001
Terpinen-4-ol/D-Isomenthone	0.004	0.040	0.001
Piperitone	0.003	0.030	0.001
Sabinene Hydrate	0.003	0.030	0.001

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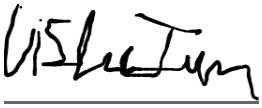
Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
alpha-Cedrene	0.002	0.020	0.001
alpha-Thujone	0.002	0.020	0.001
Farnesol 2	0.002	0.020	0.001
L-Menthone	0.002	0.020	0.001
(-)-Guaiol	<0.001	<0.010	0.001
(-)-Isopulegol	<0.001	<0.010	0.001
alpha-Phellandrene	<0.001	<0.010	0.001
alpha-Terpinene	<0.001	<0.010	0.001
Borneol	0.001	0.010	0.001
Camphor	0.001	0.010	0.001
Carvacrol	<0.001	<0.010	0.001
Carvone	<0.001	<0.010	0.001
Cedrol	<0.001	<0.010	0.001
cis-Citral	<0.001	<0.010	0.001
Citronellol	<0.001	<0.010	0.001
delta-3-Carene	<0.001	<0.010	0.001
Farnesol 1	<0.001	<0.010	0.001
Fenchone	<0.001	<0.010	0.001
gamma-Terpinene	0.001	0.010	0.001
Geranyl Acetate	<0.001	<0.010	0.001
Isoborneol	0.001	0.010	0.001
Isobornyl Acetate	<0.001	<0.010	0.001
Menthol	<0.001	<0.010	0.001
m-Isopropyltoluene	<0.001	<0.010	0.001
Nerol	0.001	0.010	0.001
Nootkatone	0.001	0.010	0.001
Octyl Acetate	<0.001	<0.010	0.001
o-Isopropyltoluene	<0.001	<0.010	0.001
Phytane	<0.001	<0.010	0.001
p-Isopropyltoluene	<0.001	<0.010	0.001
Pulegone	<0.001	<0.010	0.001
Sabinene	<0.001	<0.010	0.001
Safranal	0.001	0.010	0.001
Thymol	<0.001	<0.010	0.001
trans-Citral	0.001	0.010	0.001
trans-Nerolidol	<0.001	<0.010	0.001
Verbenone	<0.001	<0.010	0.001
Total Terpenes	**3.499**	**34.990**	

Authorized by: Laboratory Manager

Signature: 

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CERTIFICATE OF ANALYSIS

Client information

Ostara Medical
5331 Avenue Pierre Dansereau
Salaberry de Valleyfield, Canada, J6S 6A2

COA information

COA number	**240401_101897_PAR28489**
COA Date	**01-Apr-2024**
Analysis Request ID	**PAR28489**

Sample information

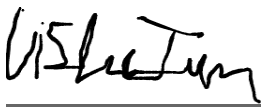
Sample Name	**GCK-003**	Sample Receiving Date	**26-Mar-2024**
Sample ID	**GCK-003**	Receiving Temperature	**21°C**
Laboratory ID	**PAT84432**		

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
01-Apr-2024	**Bile-Tolerant Gram Negative Bacteria**	USP 62	**<10**	MPN/g	<= 10000	**PASS**

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.2 Microbiology)	Compliance
30-Mar-2024	**Aerobic Microbial Count**	USP 61	**<10**	CFU/g	<= 500000	**PASS**
30-Mar-2024	**Yeast and Mold Count**	USP 61	**<10**	CFU/g	<= 50000	**PASS**

Authorized by: Laboratory Manager

Signature: 

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HIGH NORTH ID:
00450770
Date: 2024-03-26
Certificate: 1711479058

High North Inc.
241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2022

Client:	Ostara Medical Inc 5331 Ave. Pierre-Dansereau, Salaberry-de-Valleyfield , QC, J6S 6A2	Product:	BIOMASS
		Lot:	GCK-003
		Matrix:	Flower
		Sub-matrix:	Dried Flower
Name:	Philippe Ringuette 5149927445 info@ostaramedical.com	Sampled:	2024-03-05
		Received:	2024-03-08

Certificate of Analysis

Water Activity Analysis	Result
Water Activity	0.326aw

Visual Inspection/Olfactory	Result
Foreign Matter	None Detected
Sample Appearance	Brownish green dried flower buds

Total Ash Analysis	Result
Total Ash (EP 2.4.16)	8.9510%

Mycotoxin Analysis	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	Status
Aflatoxin-B1	0.5000	2	2	ND	PASS
Aflatoxin-B2	0.5000	2		ND	
Aflatoxin-G1	0.3000	2		ND	
Aflatoxin-G2	0.6000	2		ND	
Sum of Aflatoxins:			4	0	PASS
Ochratoxin-A	5.6000	20	20	ND	PASS

Microbial Analysis	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Bile-Tolerant Gram-Negative	100	100	< 100	PASS
Salmonella			Absent in 10g	PASS
E.coli			Absent in 1g	PASS

Microbial Culture Analysis	Result (CFU/g)
S.aureus	Absent in 1g
P.aeruginosa	Absent in 1g

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

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Heavy Metals Analysis	LOD (mg/kg)	LOQ (mg/kg)	RL (mg/kg)	Result (mg/kg)	Status
Arsenic	0.034	0.2	3.0	ND	PASS
Cadmium	0.016	0.06	0.5	ND	PASS
Lead	0.014	0.49	5.0	ND	PASS
Mercury	0.009	0.06	0.5	ND	PASS

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

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Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Abamectin	0.0283	0.10	0.10	ND	PASS
Acephate	0.0034	0.02	0.02	ND	PASS
Acequinocyl	0.0080	0.03	0.03	ND	PASS
Acetamiprid	0.0076	0.10	0.10	ND	PASS
Aldicarb	0.0799	1.00	1.00	ND	PASS
Allethrin	0.0410	0.20	0.20	ND	PASS
Azadirachtin	0.6407	1.00	1.00	ND	PASS
Azoxystrobin	0.0031	0.02	0.02	ND	PASS
Benzovindiflupyr	0.0053	0.02	0.02	ND	PASS
Bifenazate	0.0053	0.02	0.02	ND	PASS
Bifenthrin	0.1389	1.00	1.00	ND	PASS
Boscalid	0.0051	0.02	0.02	ND	PASS
Buprofezin	0.0037	0.02	0.02	ND	PASS
Carbaryl	0.0068	0.05	0.05	ND	PASS
Carbofuran	0.0030	0.02	0.02	ND	PASS
Chlorantraniliprole	0.0051	0.02	0.02	ND	PASS
Chlorfenapyr	0.0155	0.05	0.05	ND	PASS
Chlorpyrifos	0.0081	0.04	0.04	ND	PASS
Clofentezine	0.0066	0.02	0.02	ND	PASS
Clothianidin	0.0098	0.05	0.05	ND	PASS
Coumaphos	0.0046	0.02	0.02	ND	PASS
Cyantraniliprole	0.0060	0.02	0.02	ND	PASS
Cyfluthrin	0.0432	0.20	0.20	ND	PASS
Cypermethrin	0.0760	0.30	0.30	ND	PASS
Cyprodinil	0.0477	0.25	0.25	ND	PASS
Daminozide	0.0200	0.10	0.10	ND	PASS
Deltamethrin	0.0913	0.50	0.50	ND	PASS
Diazinon	0.0050	0.02	0.02	ND	PASS
Dichlorvos	0.0279	0.10	0.10	ND	PASS
Dimethoate	0.0048	0.02	0.02	ND	PASS
Dimethomorph	0.0143	0.05	0.05	ND	PASS
Dinotefuran	0.0098	0.10	0.10	ND	PASS
Dodemorph	0.0074	0.05	0.05	ND	PASS
Endosulfan-alpha	0.0462	0.20	0.20	ND	PASS
Endosulfan-beta	0.0147	0.05	0.05	ND	PASS
Endosulfan sulfate	0.0108	0.05	0.05	ND	PASS
Ethoprophos	0.0058	0.02	0.02	ND	PASS
Etofenprox	0.0058	0.05	0.05	ND	PASS
Etoxazole	0.0025	0.02	0.02	ND	PASS
Etridiazole	0.0064	0.03	0.03	ND	PASS
Fenoxycarb	0.0062	0.02	0.02	ND	PASS
Fenpyroximate	0.0042	0.02	0.02	ND	PASS
Fensulfothion	0.0108	0.02	0.02	ND	PASS
Fenthion	0.0059	0.02	0.02	ND	PASS

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Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Fenvalerate	0.0414	0.10	0.10	ND	PASS
Fipronil	0.0085	0.06	0.06	ND	PASS
Flonicamid	0.0152	0.05	0.05	ND	PASS
Fludioxonil	0.0061	0.02	0.02	ND	PASS
Fluopyram	0.0067	0.02	0.02	ND	PASS
Hexythiazox	0.0026	0.01	0.01	ND	PASS
Imazalil	0.0105	0.05	0.05	ND	PASS
Imidacloprid	0.0037	0.02	0.02	ND	PASS
Iprodione	0.2626	1.00	1.00	ND	PASS
Kinoprene	0.0717	0.50	0.50	ND	PASS
Kresoxim-methyl	0.0066	0.02	0.02	ND	PASS
Malathion	0.0053	0.02	0.02	ND	PASS
Metalaxyl	0.0041	0.02	0.02	ND	PASS
Methiocarb	0.0050	0.02	0.02	ND	PASS
Methomyl	0.0059	0.05	0.05	ND	PASS
Methoprene	0.3858	2.00	2.00	ND	PASS
Mevinphos	0.0092	0.05	0.05	ND	PASS
MGK-264	0.0130	0.05	0.05	ND	PASS
Myclobutanil	0.0055	0.02	0.02	ND	PASS
Naled	0.0166	0.10	0.10	ND	PASS
Novaluron	0.0134	0.05	0.05	ND	PASS
Oxamyl	0.0675	3.00	3.00	ND	PASS
Paclobutrazol	0.0054	0.02	0.02	ND	PASS
Parathion-methyl	0.0180	0.05	0.05	ND	PASS
Permethrin	0.1182	0.50	0.50	ND	PASS
Phenothrin	0.0116	0.05	0.05	ND	PASS
Phosmet	0.0064	0.02	0.02	ND	PASS
Piperonyl butoxide	0.0185	0.20	0.20	ND	PASS
Pirimicarb	0.0047	0.02	0.02	ND	PASS
Prallethrin	0.0126	0.05	0.05	ND	PASS
Propiconazole	0.0324	0.10	0.10	ND	PASS
Propoxur	0.0058	0.02	0.02	ND	PASS
Pyraclostrobin	0.0034	0.02	0.02	ND	PASS
Pyrethrins	0.0237	0.05	0.05	ND	PASS
Pyridaben	0.0069	0.05	0.05	ND	PASS
Quintozene	0.0062	0.02	0.02	ND	PASS
Resmethrin	0.0149	0.10	0.10	ND	PASS
Spinetoram	0.0043	0.02	0.02	ND	PASS
Spinosad	0.0237	0.10	0.10	ND	PASS
Spirodiclofen	0.0326	0.25	0.25	ND	PASS
Spiromesifen	0.1899	3.00	3.00	ND	PASS
Spirotetramat	0.0040	0.02	0.02	ND	PASS
Spiroxamine	0.0135	0.10	0.10	ND	PASS
Tebuconazole	0.0158	0.05	0.05	ND	PASS

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Pesticides Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Tebufenozide	0.0040	0.02	0.02	ND	PASS
Teflubenzuron	0.0153	0.05	0.05	ND	PASS
Tetrachlorvinphos	0.0060	0.02	0.02	ND	PASS
Tetramethrin	0.0164	0.10	0.10	ND	PASS
Thiacloprid	0.0031	0.02	0.02	ND	PASS
Thiamethoxam	0.0035	0.02	0.02	ND	PASS
Thiophanate-methyl	0.0102	0.05	0.05	ND	PASS
Trifloxystrobin	0.0055	0.02	0.02	ND	PASS

Identification A (Macroscopic) DAB Monograph

Bracts and flowers of the overall inflorescence form the flattened branched raceme in which each branch has more than one flower.
This highly compressed panicle is approximately 1 to 5 cm in length and width.

The flower husks are green to light green, covered with dense yellow-white hairs, and stuck together with resin. The fower is about 5 to 10 mm long, consisting of a hooded, green to light green bloom.

Light brown to brown pistils and stigma branches, within an individual flower, having an overall length of up to 1 cm.

The crumbled inflorescence contains peduncle fragments, bracts, and panicle sections, as well as individual flowers and flower organs.

Bracts and all flower organs, except pistils, are more or less densely covered with excreted resin-adhesive glandular hairs.

Identification B (Microscopic) DAB Monograph

Isolated Heads

Bract fragments having short, broad cystolith hairs on the upper epidermis.

The upper epidermis having polygonal or sinuate anticlinate cell walls, the cystolith trichomes having very thick, in some cases verrucose cell walls, the cystoliths can be seen as botryoid structures, the palisade parenchyma is visible below the epidermis; bract fragments having fine, unicellular covering trichomes. (Top and Side view)

Leaf fragment with sinuate or wavy, beaded anticlinal cell walls of the lower epidermis, with anomocytic stomata; leaf fragments densely covered with contact points for the pluricellular stalks of the large glandular hairs; leaf fragments densely covered with points of attachment of multiple-cell stalks of the large glandular trichomes; leaf fragments with many cluster crystals of calcium oxalate in mesophyll.

Comments

This COA cancels and supersedes certificate ID 1710949407 dated 2024-03-20.

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Authorized by:

Ryan Lee
Quality Assurance

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Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC
LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC
LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC
LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

Pesticide Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS
LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS
LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS
LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS
LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS
LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS
LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS
LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS
LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS
LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

Authorized by: Ryan Lee, Quality Assurance

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Details of Testing

Microbial Analysis
MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR
MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA
MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques
MIC-MTD-009: Cannabis Gender Determination by qPCR
MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products
MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products by TEMPO

Moisture Analysis
LAB-MTD-017: Determination of Moisture Content in Cannabis Flower
LAB-MTD-031: Water Activity Meter Setup and Operation
LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven
LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

Sample Appearance and Foreign Matter
LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

Total Ash Analysis
LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

Residual Solvents Analysis
LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS
LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS
LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS
LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS
LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis
LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS
LAB-MTD-058: Determination of Palladium (Pd) in Cannabis Dried Flower, Fresh Flower and Extracts by ICP-MS

pH Analysis
MIC-MTD-013: Determination of pH using pH Meter

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, * = Mixture of Isomers

Authorized by:

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ISO 17025:2017
Accredited Laboratory