

CERTIFICATE OF ANALYSIS

Client information

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

COA information

COA number **230627_63161_PAR17633**
COA Date **27-Jun-2023**
Analysis Request ID **PAR17633**

Sample information

Sample Name **OM-001-LHK-001** Sample Receiving Date **22-Jun-2023**
Sample ID **E1-OM-001-LHK-001** Receiving Temperature **21°C**
Laboratory ID **PAT53666**

Results information

Analysis Date	Test	Method Ref.	Results	Units
27-Jun-2023	Moisture	PAT-AM-023(USP <731>)	13.04	%

Authorized by: Laboratory Manager

Signature:



Details of testing

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2. This report may not be distributed or reproduced except in full.



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Sample information

Sample Name	OM-001-LHK-001	Sample Receiving Date	22-Jun-2023
Sample ID	E1-OM-001-LHK-001	Receiving Temperature	21°C
Laboratory ID	PAT53666	Analysis Date	26-Jun-2023
Method Ref.	PAT-AM-019		

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	0.019	0.190	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.064	0.640	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.069	0.690	0.010
CBGA	0.805	8.050	0.010
CBN	0.017	0.170	0.010
D8-THC	<0.010	<0.100	0.010
D9-THC	0.956	9.560	0.010
THCA-A	32.805	328.050	0.010
THCV	<0.010	<0.100	0.010
Total THC	29.726	297.260	
Total CBD	0.056	0.561	

29.726%
Total THC

0.056%
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.

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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:	Ostara Médical	20-Apr-2023 Date Received
Sample Name / Lot:	OM-001-LHK-001	21-Apr-2023 Analysis Date
Sample ID:	CNF-1527-02	25-Apr-2023 Reporting Date
Sample Type:	Dried Cannabis	
Certificate Number:	2023-01210 Rev 1	

Terpenes	Method (Date of last validation:22-04-2022)	LOD (ppm)	Result (ppm)	Result (%)
alpha-Pinene	GC-MS Headspace Validated Assay CN0068	10.0	898	0.0898
Camphene	GC-MS Headspace Validated Assay CN0068	10.0	211	0.0211
Sabinene	GC-MS Headspace Validated Assay CN0068	10.0	49	0.0049
Myrcene	GC-MS Headspace Validated Assay CN0068	10.0	1981	0.1981
beta-Pinene	GC-MS Headspace Validated Assay CN0068	10.0	1222	0.1222
(R)-(-)-alpha-Phellandrene	GC-MS Headspace Validated Assay CN0068	10.0	49	0.0049
(1s)(+)-3-Carene	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
alpha-Terpinene	GC-MS Headspace Validated Assay CN0068	10.0	48	0.0048
cis-Ocimene	GC-MS Headspace Validated Assay CN0068	2.5	41	0.0041
(R)-(+)-Limonene	GC-MS Headspace Validated Assay CN0068	10.0	7313	0.7313
p-Cymene	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
trans-Ocimene	GC-MS Headspace Validated Assay CN0068	7.5	2254	0.2254
Eucalyptol	GC-MS Headspace Validated Assay CN0068	10.0	70	0.0070
gamma-Terpinene	GC-MS Headspace Validated Assay CN0068	10.0	58	0.0058
Terpinolene	GC-MS Headspace Validated Assay CN0068	10.0	338	0.0338
Linalool	GC-MS Headspace Validated Assay CN0068	10.0	1094	0.1094
(+/-)-Fenchone	GC-MS Headspace Validated Assay CN0068	10.0	185	0.0185
(+)-Fenchol	GC-MS Headspace Validated Assay CN0068	10.0	920	0.0920
(-)-Isopulegol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(+/-)-Camphor	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
Isborneol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
L-Menthol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(+/-)-Borneol	GC-MS Headspace Validated Assay CN0068	10.0	200	0.0200
alpha-Terpineol	GC-MS Headspace Validated Assay CN0068	10.0	1398	0.1398
Geraniol	GC-MS Headspace Validated Assay CN0068	20.0	309	0.0309
(+)-Pulegone	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
Geranyl acetate	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(-)-alpha-Santalene	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(-)-alpha-Cedrene	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(-)-trans-Caryophyllene	GC-MS Headspace Validated Assay CN0068	10.0	5515	0.5515
alpha-Humulene	GC-MS Headspace Validated Assay CN0068	10.0	2193	0.2193
Farnesene (sum of isomers)	GC-MS Headspace Validated Assay CN0068	20.0	1588	0.1588
(+)-Valencene	GC-MS Headspace Validated Assay CN0068	10.0	2266	0.2266
cis-Nerolidol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
Trans-Nerolidol	GC-MS Headspace Validated Assay CN0068	10.0	204	0.0204
(-)-Guaial	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(-)-Caryophyllene oxide	GC-MS Headspace Validated Assay CN0068	10.0	226	0.0226
(+)-Cedrol	GC-MS Headspace Validated Assay CN0068	10.0	<10	<0.0010
(-)-alpha-Bisabolol	GC-MS Headspace Validated Assay CN0068	10.0	805	0.0805
Total Terpene			31434	3.1434

LOD - Limit of Detection

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Client information

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

COA information

COA number **230417_54188_PAR14948**
COA Date **17-Apr-2023**
Analysis Request ID **PAR14948**

Sample information

Sample Name **OM-001-LHK-001** Sample Receiving Date **11-Apr-2023**
Sample ID **E1-OM-001-LHK-001** Receiving Temperature **21°C**
Laboratory ID **PAT46268**

Results information

Analysis Date	Test	Method Ref.	Results	Units
14-Apr-2023	Water activity	PAT-AM-025	0.5415	aW

Authorized by: Laboratory Manager

Signature: 

Details of testing

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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 **230417_54279_PAR14948**
COA Date **17-Apr-2023**
Analysis Request ID **PAR14948**

Sample information

Sample Name **OM-001-LHK-001** Sample Receiving Date **11-Apr-2023**
Sample ID **E1-OM-001-LHK-001** Receiving Temperature **21°C**
Laboratory ID **PAT46267**

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 2.4.16)	Compliance
13-Apr-2023	Ash	PAT-AM-013(USP<561>Modified)	11.27	%	<= 20	PASS
Analysis Date	Test	Method Ref.	Results	Units	Specification	Compliance
14-Apr-2023	Appearance	PAT-AM-015	Big light green buds with characteristic hair like structures and frosty crystals	.	NA	NA

Authorized by: Laboratory Manager

Signature: 

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Sample information

Sample Name	OM-001-LHK-001	Sample Receiving Date	11-Apr-2023
Sample ID	E1-OM-001-LHK-001	Receiving Temperature	21°C
Laboratory ID	PAT46267	Analysis Date	14-Apr-2023
Method Ref.	PAT-AM-024		

Results Information

Aflatoxins	Results	Unit	LOQ
Aflatoxin B1	<0.002	ppm	0.002
Aflatoxin B2	<0.002	ppm	0.002
Aflatoxin G1	<0.002	ppm	0.002
Aflatoxin G2	<0.002	ppm	0.002
Total Aflatoxins (B1,B2,G1,G2)	<0.002	ppm	0.002

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Sample information

Sample Name	OM-001-LHK-001	Sample Receiving Date	11-Apr-2023
Sample ID	E1-OM-001-LHK-001	Receiving Temperature	21°C
Laboratory ID	PAT46267	Analysis Date	14-Apr-2023
Method Ref.	PAT-AM-026(USP <561>)		

Results Information

Foreign Material	Results	Unit	LOQ
Foreign elements	0	/g	N/A
Foreign organs	0	/g	N/A
Other Foreign elements	0	/g	N/A
Total Foreign matter	0	/g	N/A

Authorized by: Laboratory Manager

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Sample information

Sample Name	OM-001-LHK-001	Sample Receiving Date	11-Apr-2023
Sample ID	E1-OM-001-LHK-001	Receiving Temperature	21°C
Laboratory ID	PAT46267	Analysis Date	17-Apr-2023
Method Ref.	PAT-AM-020 (USP 233 Modified)		

Results Information

Heavy Metals	Results	Unit	LOQ
Arsenic	<0.025	ppm	0.025
Cadmium	<0.020	ppm	0.02
Lead	<0.010	ppm	0.01
Mercury	<0.005	ppm	0.005

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Sample information

Sample Name	OM-001-LHK-001	Sample Receiving Date	11-Apr-2023
Sample ID	E1-OM-001-LHK-001	Receiving Temperature	21°C
Laboratory ID	PAT46267	Analysis Date	16-Apr-2023
Method Ref.	PAT-AM-024		

Pesticides Dried Cannabis Results Information

Compound Detected	Results (ppm)	RDL	Specification (HC MRL Limits)	Compliance
No Compounds Detected				

Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Abamectin	ND	0.02	< 0.1
Acephate	ND	0.02	< 0.02
Acequinocyl	ND	0.02	< 0.03
Acetamiprid	ND	0.02	< 0.1
Aldicarb	ND	0.02	< 1
Allethrin	ND	0.02	< 0.2
Azadirachtin	ND	0.02	< 1
Azoxystrobin	ND	0.01	< 0.02
Benzovindiflupyr	ND	0.01	< 0.02
Bifenazate	ND	0.02	< 0.02
Bifenthrin	ND	0.02	< 1
Boscalid	ND	0.01	< 0.02
Buprofezin	ND	0.01	< 0.02
Carbaryl	ND	0.02	< 0.05
Carbofuran	ND	0.01	< 0.02
Chlorantraniliprole	ND	0.01	< 0.02
Chlorphenapyr	ND	0.05	< 0.05
Chlorpyrifos	ND	0.01	< 0.04
Clofentezine	ND	0.01	< 0.02
Clothianidin	ND	0.02	< 0.05
Coumaphos	ND	0.01	< 0.02
Cyantraniliprole	ND	0.01	< 0.02
Cyfluthrin	ND	0.1	< 0.2
Cypermethrin	ND	0.02	< 0.3
Cyprodinil	ND	0.02	< 0.25
Daminozide	ND	0.05	< 0.1
Deltamethrin	ND	0.02	< 0.5
Diazinon	ND	0.01	< 0.02
Dichlorvos	ND	0.02	< 0.1
Dimethoate	ND	0.01	< 0.02
Dimethomorph	ND	0.02	< 0.05
Dinotefuran	ND	0.02	< 0.1
Dodemorph	ND	0.02	< 0.05
Endosulfan sulfate	ND	0.02	< 0.05
Endosulfan-alpha	ND	0.1	< 0.2
Endosulfan-beta	ND	0.01	< 0.05
Ethoprophos	ND	0.01	< 0.02

Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Etofenprox	ND	0.01	< 0.05
Etoazole	ND	0.01	< 0.02
Etridiazole	ND	0.01	< 0.03
Fenoxycarb	ND	0.01	< 0.02
Fenpyroximate	ND	0.02	< 0.02
Fensulfothion	ND	0.01	< 0.02
Fenthion	ND	0.01	< 0.02
Fenvalerate	ND	0.05	< 0.1
Fipronil	ND	0.01	< 0.06
Flonicamid	ND	0.02	< 0.05
Fludioxonil	ND	0.01	< 0.02
Fluopyram	ND	0.01	< 0.02
Hexythiazox	ND	0.01	< 0.01
Imazalil	ND	0.01	< 0.05
Imidacloprid	ND	0.01	< 0.02
Iprodione	ND	0.5	< 1
Kinoprene	ND	0.05	< 0.5
Kresoxim-methyl	ND	0.01	< 0.02
Malathion	ND	0.01	< 0.02
Metalaxyl	ND	0.01	< 0.02
Methiocarb	ND	0.01	< 0.02
Methomyl	ND	0.02	< 0.05
Methoprene	ND	0.5	< 2
Mevinphos	ND	0.02	< 0.05
MGK-264	ND	0.02	< 0.05
Myclobutanil	ND	0.01	< 0.02
Naled	ND	0.02	< 0.1
Novaluron	ND	0.02	< 0.05
Oxamyl	ND	0.02	< 3
Paclobutrazol	ND	0.01	< 0.02
Parathion-methyl	ND	0.02	< 0.05
Permethrin	ND	0.1	< 0.5
Phenothrin	ND	0.02	< 0.05
Phosmet	ND	0.01	< 0.02
Piperonyl butoxide	ND	0.02	< 0.2
Pirimicarb	ND	0.01	< 0.02
Prallethrin	ND	0.02	< 0.05
Propiconazole	ND	0.01	< 0.1
Propoxur	ND	0.01	< 0.02
Pyraclostrobin	ND	0.01	< 0.02
Pyrethrins	ND	0.025	< 0.05
Pyridaben	ND	0.02	< 0.05
Quintozene	ND	0.01	< 0.02
Resmethrin	ND	0.02	< 0.1
Spinetoram	ND	0.01	< 0.02
Spinosad	ND	0.01	< 0.1
Spirodiclofen	ND	0.02	< 0.25
Spiromesifen	ND	0.02	< 3
Spirotetramat	ND	0.02	< 0.02
Spiroxamine	ND	0.01	< 0.1
Tebuconazole	ND	0.01	< 0.05

Compounds Not Detected	Results (ppm)	RDL	Specification (HC MRL Limits)
Tebufenozide	ND	0.01	< 0.02
Teflubenzuron	ND	0.02	< 0.05
Tetrachlorvinphos	ND	0.01	< 0.02
Tetramethrin	ND	0.02	< 0.1
Thiacloprid	ND	0.01	< 0.02
Thiamethoxam	ND	0.01	< 0.02
Thiophanate-methyl	ND	0.02	< 0.05
Trifloxystrobin	ND	0.01	< 0.02

Authorized by: Laboratory Manager

Signature: 

Details of testing

1. ppm (w/w): parts per million by weight, MRL: Maximum residue limits, RDL: Reporting detection limits
2. The compounds are ND (not detected) at or above the RDL
3. Health Canada and/or United States MRL are taken from Health Canada & Global MRL Database (where applicable) on the date of COA preparation
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Client information

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

COA information

COA number **230417_54293_PAR14948**
COA Date **17-Apr-2023**
Analysis Request ID **PAR14948**

Sample information

Sample Name **OM-001-LHK-001** Sample Receiving Date **11-Apr-2023**
Sample ID **E1-OM-001-LHK-001** Receiving Temperature **21°C**
Laboratory ID **PAT46268**

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
14-Apr-2023	Aerobic Microbial Count	EP 2.6.12	2560	CFU/g	<= 500000	PASS
16-Apr-2023	Yeast and Mold Count	EP 2.6.12	260	CFU/g	<= 50000	PASS
17-Apr-2023	Salmonella spp.	EP 2.6.13	Negative	/25g	Negative	PASS
17-Apr-2023	Escherichia coli	EP 2.6.13	Negative	/g	Negative	PASS
Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
17-Apr-2023	Staphylococcus aureus	EP 2.6.13	Negative	/g	Negative	PASS
14-Apr-2023	Pseudomonas aeruginosa	EP 2.6.13	Negative	/g	Negative	PASS
Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.8 Microbiology)	Compliance
17-Apr-2023	Bile-Tolerant Gram Negative Bacteria	EP 2.6.13	<10000	MPN/g	<= 10000	PASS

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