

CERTIFICATE OF ANALYSIS

Client information

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

COA information

COA number **240205_94070_PAR26262**
COA Date **05-Feb-2024**
Analysis Request ID **PAR26262**

Sample information

Sample Name **LHK-004E**
Sample ID **LHK-004E**
Laboratory ID **PAT78150**
Method Ref. **PAT-AM-019**

Sample Receiving Date **30-Jan-2024**
Receiving Temperature **16.9°C**
Analysis Date **02-Feb-2024**

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	0.073	0.730	0.050
CBDV	<0.050	<0.500	0.050
CBG	0.199	1.990	0.050
CBGA	1.408	14.080	0.050
CBN	<0.050	<0.500	0.050
D8-THC	<0.050	<0.500	0.050
D9-THC	2.355	23.550	0.050
THCA-A	28.631	286.310	0.050
THCV	<0.050	<0.500	0.050
Total THC	27.464	274.640	0.050
Total CBD	0.064	0.640	0.050

27.464%
Total THC

0.064%
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

1. LOQ- Limit of quantification
2. % w/w: percent (weight of analyte/ weight of product)
3. Results only apply to the items tested and to the sample(s) as received.
4. This report may not be distributed or reproduced except in full



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Salaberry de Valleyfield, Canada, J6S 6A2

COA information

COA number **240129_92725_PAR25920**
COA Date **29-Jan-2024**
Analysis Request ID **PAR25920**

Sample information

Sample Name **LHK-004-E** Sample Receiving Date **22-Jan-2024**
Sample ID **LHK-004-E** Receiving Temperature **17.8°C**
Laboratory ID **PAT76986**

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 2.2.32)	Compliance
24-Jan-2024	Moisture	PAT-AM-023(USP <731>)	14.16	%	<= 15	PASS

Authorized by: Laboratory Manager

Signature:



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Sample information

Sample Name	LHK-004-E	Sample Receiving Date	22-Jan-2024
Sample ID	LHK-004-E	Receiving Temperature	17.8°C
Laboratory ID	PAT76986	Analysis Date	29-Jan-2024
Method Ref.	PAT-AM-022		

Terpenes Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
D-Limonene	1.359	13.590	0.001
beta-Caryophyllene	0.589	5.890	0.001
Linalool	0.308	3.080	0.001
alpha-Humulene	0.283	2.830	0.001
beta-Pinene	0.259	2.590	0.001
Farnesene 3	0.232	2.320	0.005
alpha-Pinene	0.213	2.130	0.001
trans-beta-Ocimene	0.208	2.080	0.001
1R-endo-Fenchyl-Alcohol	0.150	1.500	0.001
alpha-Terpineol	0.129	1.290	0.001
Selina-3,7(11)-diene	0.115	1.150	0.001
beta-Myrcene	0.085	0.850	0.001
Farnesene 1	0.051	0.510	0.005
trans-Nerolidol	0.050	0.500	0.001
Farnesene 4	0.048	0.480	0.005
beta-Selinene	0.043	0.430	0.001
alpha-Selinene	0.037	0.370	0.001
Camphene	0.037	0.370	0.001
trans-beta-Farnesene	0.022	0.220	0.001
cis-beta-Ocimene	0.018	0.180	0.005
Caryophyllene Oxide	0.015	0.150	0.001
Farnesol 2	0.013	0.130	0.001
Terpinolene	0.011	0.110	0.001
Terpinen-4-ol/D-Isomenthone	0.009	0.090	0.001
(-)-alpha-Bisabolol	0.008	0.080	0.001
Farnesene 2	0.006	0.060	0.005
Camphor	0.005	0.050	0.001
Farnesene 5	<0.005	<0.050	0.005
Sabinene Hydrate	0.005	0.050	0.001
Fenchone	0.004	0.040	0.001
Geraniol	0.004	0.040	0.001
Nootkatone	0.004	0.040	0.001
Borneol	0.003	0.030	0.001
Piperitone	0.003	0.030	0.001
Valencene	0.003	0.030	0.001
gamma-Terpinene	0.002	0.020	0.001
Isobornyl Acetate	0.002	0.020	0.001
Squalene	0.002	0.020	0.001
(-)-Guaiol	0.001	0.010	0.001
(-)-Isopulegol	<0.001	<0.010	0.001

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
1,8-Cineole (Eucalyptol)	<0.001	<0.010	0.001
alpha-Cedrene	<0.001	<0.010	0.001
alpha-Phellandrene	<0.001	<0.010	0.001
alpha-Terpinene	<0.001	<0.010	0.001
alpha-Thujone	<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
cis-Nerolidol	<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
Geranyl Acetate	<0.001	<0.010	0.001
Isoborneol	<0.001	<0.010	0.001
L-Menthone	<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
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
Verbenone	<0.001	<0.010	0.001
Total Terpenes	4.336	43.360	

Authorized by: Laboratory Manager

Signature:



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

COA information

COA number **230530_59694_PAR16502**
COA Date **30-May-2023**
Analysis Request ID **PAR16502**

Sample information

Sample Name	LHK-004-E	Sample Receiving Date	24-May-2023
Sample ID	E3-LHK-004-E	Receiving Temperature	21°C
Laboratory ID	PAT50655		

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 2.4.16)	Compliance
29-May-2023	Ash	PAT-AM-013(USP<561>Modified)	10.46	%	<= 20	PASS

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 **240126_92680_PAR25920**
COA Date **26-Jan-2024**
Analysis Request ID **PAR25920**

Sample information

Sample Name **LHK-004-E** Sample Receiving Date **22-Jan-2024**
Sample ID **LHK-004-E** Receiving Temperature **17.8°C**
Laboratory ID **PAT76986**

Results information

Analysis Date	Test	Method Ref.	Results	Units	Specification (EP 5.1.4 Inhalation)	Compliance
26-Jan-2024	Bile-Tolerant Gram Negative Bacteria	EP 2.6.13	<10	MPN/g	<= 100	PASS
25-Jan-2024	Aerobic Microbial Count	EP 2.6.12	<10	CFU/g	<= 10000	PASS
26-Jan-2024	Yeast and Mold Count	EP 2.6.12	<10	CFU/g	<= 100	PASS

Authorized by: Laboratory Manager

Signature:



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Certificate of Analysis

Client:	Ostara Médical	24-May-2023 Date Received
Sample Name:	LHK-004-E / E1-LHK-004-E	25-May-2023 Analysis Date
Sample ID	CNF-1602-01	1-Jun-2023 Reporting Date
Sample Type:	Dried Cannabis	
Certificate Number:	2023-01627 Rev 0	

Aflatoxins (Mycotoxins)	Method (Date of last validation:08-06-2022)	LLOQ	Units	Tolerance Limit*	Result
Aflatoxin-B1	LC-MS-MS Validated Assay CN0048	1.00	ppb	2	<1,00
Aflatoxin-B2	LC-MS-MS Validated Assay CN0048	1.00	ppb		<1,00
Aflatoxin-G1	LC-MS-MS Validated Assay CN0048	1.00	ppb		<1,00
Aflatoxin-G2	LC-MS-MS Validated Assay CN0048	1.00	ppb		<1,00
Total (Aflatoxin-B1+B2+G1+G2)			ppb	4	<4,00

*EP <2.8.18>

Heavy Metals	Method (Date of last validation: 03-09-2020)	LLOQ	Units	Tolerance Limit*	Result
Arsenic	ICP-MS Validated Assay CN0002	0.10	ppm	0.2	<0,10
Cadmium	ICP-MS Validated Assay CN0002	0.10	ppm	0.3	<0,10
Lead	ICP-MS Validated Assay CN0002	0.25	ppm	0.5	<0,25
Mercury	ICP-MS Validated Assay CN0002	0.05	ppm	0.1	<0,05

*ICH Q3D. Tolerance limit based on 10g of daily consumption.

LLOQ - Lower Limit of Quantification

Certificate of Analysis

Client:	Ostara Médical	24-May-2023 Date Received
Sample Name / Lot:	LHK-004-E / E1-LHK-004-E	25-May-2023 Analysis Date
Sample ID:	CNF-1602-01	1-Jun-2023 Reporting Date
Sample Type:	Dried Cannabis	
Certificate Number:	2023-01627 Rev 0	

Pesticides	Method (Date of last validation:17-01-2020)	LLOQ	Units	Tolerance Limit*	Result
Abamectin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Acephate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Acequinocyl	LC-MS-MS Validated Assay CN0004	0.03	ppm	0.03	<0,03
Acetamiprid	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Aldicarb	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Allethrin	LC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0,20
Azadirachtin	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Azoxystrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Benzovindiflupyr	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Bifenazate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Bifenthrin	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1,00
Boscalid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Buprofezin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Carbaryl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Carbofuran	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Chlorantraniliprole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Chlorphenapyr	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Chlorpyrifos	LC-MS-MS Validated Assay CN0004	0.04	ppm	0.04	<0,04
Clofentezine	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Clothianidin	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Coumaphos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Cyantranilipole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Cyfluthrin	GC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0,20
Cypermethrin	LC-MS-MS Validated Assay CN0004	0.30	ppm	0.3	<0,30
Cyprodinil	LC-MS-MS Validated Assay CN0004	0.25	ppm	0.25	<0,25
Daminozide	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Deltamethrin	LC-MS-MS Validated Assay CN0004	0.50	ppm	0.5	<0,50
Diazinon	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Dichlorvos	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Dimethoate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Dimethomorph	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Dinotefuran	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Dodemorph	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Endosulfan sulfate	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Endosulfan-alpha	GC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0,20
Endosulfan-beta	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Ethoprophos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Etofenprox	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05
Etoxazole	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Etridiazol	GC-MS-MS Validated Assay CN0004	0.03	ppm	0.03	<0,03
Fenoxycarb	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenpyroximate	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fensulfothion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenthion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0,02
Fenvalerate	GC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0,10
Fipronil	LC-MS-MS Validated Assay CN0004	0.06	ppm	0.06	<0,06
Fonicamid	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0,05

*Health Canada Tolerance Limit

LLOQ - Lower Limit of Quantification

Certificate of Analysis

Client:	Ostara Médical	24-May-2023 Date Received
Sample Name / Lot:	LHK-004-E / E1-LHK-004-E	25-May-2023 Analysis Date
Sample ID:	CNF-1602-01	1-Jun-2023 Reporting Date
Sample Type:	Dried Cannabis	
Certificate Number:	2023-01627 Rev 0	

Pesticides	Method (Date of last validation: 17-01-2020)	LLOQ	Units	Tolerance Limit*	Result
Fludioxonil	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Fluopyram	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Hexythiazox	LC-MS-MS Validated Assay CN0004	0.01	ppm	0.01	<0.01
Imazalil	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Imidacloprid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Iprodione	LC-MS-MS Validated Assay CN0004	1.00	ppm	1	<1.00
Kinoprene	GC-MS-MS Validated Assay CN0004	0.50	ppm	0.50	<0.50
Kresoxim-methyl	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Malathion	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Metalaxyl	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Methiocarb	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Methomyl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Methoprene	LC-MS-MS Validated Assay CN0004	2.00	ppm	2	<2.00
Methyl parathion	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Mevinphos	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
MGK-264	GC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Myclobutanil	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Naled	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Novaluron	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Oxamyl	LC-MS-MS Validated Assay CN0004	3.00	ppm	3.0	<3.00
Pacllobutrazol	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Permethrin	LC-MS-MS Validated Assay CN0004	0.50	ppm	0.5	<0.50
Phenothrin	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Phosmet	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Piperonyl butoxide	LC-MS-MS Validated Assay CN0004	0.20	ppm	0.2	<0.20
Pirimicarb	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Prallethrin	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Propiconazole	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Propoxur	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Pyraclostrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Pyrethrins	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Pyridaben	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Quintozene	GC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Resmethrin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Spinetoram	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Spinosad	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Spirodiclofen	LC-MS-MS Validated Assay CN0004	0.25	ppm	0.25	<0.25
Spiromesifen	LC-MS-MS Validated Assay CN0004	3.00	ppm	3	<3.00
Spirotetramat	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Spiroxamine	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Tebuconazole	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Tebufenozide	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Teflubenzuron	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Tetrachlorvinphos	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Tetramethrin	LC-MS-MS Validated Assay CN0004	0.10	ppm	0.1	<0.10
Thiacloprid	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Thiamethoxam	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02
Thiophanate-methyl	LC-MS-MS Validated Assay CN0004	0.05	ppm	0.05	<0.05
Trifloxystrobin	LC-MS-MS Validated Assay CN0004	0.02	ppm	0.02	<0.02

*Health Canada Tolerance Limit

LLOQ - Lower Limit of Quantification

Pharmascience Inc.

6111 Royalmount Avenue, Montreal, Québec, Canada, H4P 2T4

Certificate of Analysis



Client:	<u>Ostara Médical</u>	<u>24-May-2023</u>
		Date Received
Sample Name:	<u>LHK-004-E / E1-LHK-004-E</u>	<u>25-May-2023</u>
		Analysis Date
Sample ID	<u>CNF-1602-01</u>	
Sample Type:	<u>Dried Cannabis</u>	<u>1-Jun-2023</u>
		Reporting Date
Certificate Number:	<u>2023-01627 Rev 0</u>	

Microbiological Assay	Method (Date of last validation:23-10-2020)	Tolerance Limit*	Units	Result	Pass/Fail
Total Aerobic Microbial Count	USP and EP Harmonized Method CN0027	2,500,000	CFU/g	9,300	Pass
Total Combined Yeast and Moulds Count	USP and EP Harmonized Method CN0027	250,000	CFU/g	25,150	Pass
Bile-tolerant Gram Negative Bacteria	USP and EP Harmonized Method CN0027	10,000	CFU/g	<10	Pass
Escherichia coli	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass
Salmonella	USP and EP Harmonized Method CN0027	Absent in 25g	N/AP	Absent	Pass
Pseudomonas aeruginosa	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass
Staphylococcus aureus	USP and EP Harmonized Method CN0027	Absent in 1g	N/AP	Absent	Pass

*EP <5.1.8>

Appearance Inspection

<p>E1-LHK-004-E CNF-1602-01</p>	<p>Moderate green to light green and tan colored flowering plant particulates. Thick and dense clusters with round-looking nugs.</p>
	<p>Absence of stalks, insects and other extraneous substances by visual inspection on 10 grams of dry flower sample. No evidence of spoilage. No visible foreign matter.</p>
	<p>Photograph taken with Canon EOS Rebel T6 in light box at 1/60 sec. f/8 50mm 100 ISO.</p>

Foreign Matter	Method Description	Result (%w/w)
%w/w of Foreign Matter	CN0062 and USP <561>	<2%

N/AP - Not Applicable