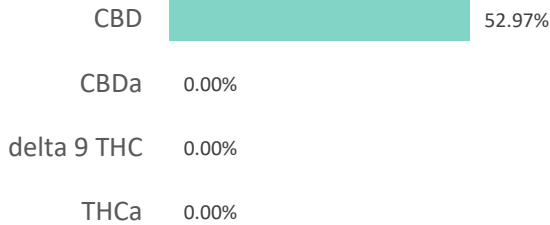
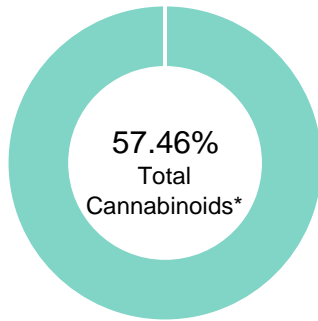


prepared for: 
NHE-REM-123119FC-1

Batch ID:		Test ID:	7064283.0015
Reported:	8-Jan-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.13	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.07	0.00	0.0
Cannabidiolic acid (CBDA)	0.25	0.00	0.0
Cannabidiol (CBD)	0.14	52.97	529.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.07	0.00	0.0
Cannabinolic Acid (CBNA)	0.19	0.00	0.0
Cannabinol (CBN)	0.08	1.04	10.4
Cannabigerolic acid (CBGA)	0.12	0.00	0.0
Cannabigerol (CBG)	0.07	1.50	15.0
Tetrahydrocannabivarinic Acid (THCVA)	0.12	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.06	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.23	0.00	0.0
Cannabidivarin (CBDV)	0.13	0.00	0.0
Cannabichromenic Acid (CBCA)	0.10	0.00	0.0
Cannabichromene (CBC)	0.12	1.95	19.5
Total Cannabinoids		57.46	574.60
Total Potential THC**		0.00	0.00
Total Potential CBD**		52.97	529.70

 NOTES:
N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)


* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and } \text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
FINAL APPROVAL


Ryan Weems
8-Jan-2020
11:00 AM

PREPARED BY / DATE



Greg Zimpfer
8-Jan-2020
1:27 PM

APPROVED BY / DATE

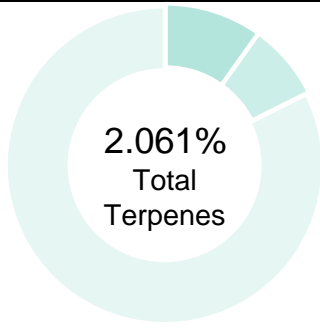
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

prepared for: [REDACTED]
[REDACTED]
[REDACTED]
NHE-REM-123119FC-1

Batch ID:		Test ID:	6355116.001
Reported:	9-Jan-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	1.177	11.77
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.141	1.41
(-)-Caryophyllene Oxide	0.560	5.6
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.111	1.11
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.000	0
beta-Myrcene	0.000	0
cis-Nerolidol	0.000	0
trans-Nerolidol	0.072	0.72
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	2.061%	20.61

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.000%
beta-Caryophyllene	0.141%
alpha-Humulene	0.111%
(-)-alpha-Bisabolol	1.177%

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 9-Jan-2020 4:33 PM	 Greg Zimpfer 9-Jan-2020 8:25 PM
--	--

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02



prepared for: [REDACTED]

NHE-REM-123119FC-1

Batch ID:	N/A	Test ID:	3447035.005
Reported:	8-Jan-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

	Ryan Weems 8-Jan-2020 3:31 PM		David Green 8-Jan-2020 4:06 PM
--	-------------------------------------	--	--------------------------------------

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

prepared for: [REDACTED]
[REDACTED]
[REDACTED]

NHE-REM-123119FC-1

Batch ID:		Test ID:	3589994.0031
Reported:	8-Jan-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	53 - 2465	ND*	Malathion	53 - 2465	ND*
Acetamiprid	53 - 2465	ND*	Metalaxyl	319 - 2465	ND*
Avermectin	319 - 2465	ND*	Methiocarb	53 - 2465	ND*
Azoxystrobin	53 - 2465	ND*	Methomyl	53 - 2465	ND*
Bifenazate	53 - 2465	ND*	MGK 264 1	53 - 2465	ND*
Boscalid	319 - 2465	ND*	MGK 264 2	319 - 2465	ND*
Carbaryl	53 - 2465	ND*	Myclobutanil	319 - 2465	ND*
Carbofuran	53 - 2465	ND*	Naled	319 - 2465	ND*
Chlorantraniliprole	53 - 2465	ND*	Oxamyl	53 - 2465	ND*
Chlorpyrifos	319 - 2465	ND*	Paclobutrazol	53 - 2465	ND*
Clofentezine	53 - 2465	ND*	Permethrin	319 - 2465	ND*
Diazinon	53 - 2465	ND*	Phosmet	53 - 2465	ND*
Dichlorvos	319 - 2465	ND*	Prophos	319 - 2465	ND*
Dimethoate	53 - 2465	ND*	Propoxur	319 - 2465	ND*
E-Fenpyroximate	319 - 2465	ND*	Pyridaben	319 - 2465	ND*
Etofenprox	319 - 2465	ND*	Spinosad A	53 - 2465	ND*
Etoxazole	319 - 2465	ND*	Spinosad D	319 - 2465	ND*
Fenoxycarb	53 - 2465	ND*	Spiromesifen	53 - 2465	ND*
Fipronil	319 - 2465	ND*	Spirotetramat	319 - 2465	ND*
Flonicamid	53 - 2465	ND*	Spiroxamine 1	53 - 2465	ND*
Fludioxonil	319 - 2465	ND*	Spiroxamine 2	53 - 2465	ND*
Hexythiazox	319 - 2465	ND*	Tebuconazole	53 - 2465	ND*
Imazalil	319 - 2465	ND*	Thiacloprid	53 - 2465	ND*
Imidacloprid	53 - 2465	ND*	Thiamethoxam	53 - 2465	ND*
Kresoxim-methyl	53 - 2465	ND*	Trifloxystrobin	319 - 2465	ND*

* ND = None Detected (Defined by Dynamic Range of the method)


N/A

FINAL APPROVAL


 Sam Smith
 8-Jan-2020
 7:16 AM
 PREPARED BY / DATE


 Greg Zimpfer
 8-Jan-2020
 7:24 AM
 APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

prepared for: 


NHE-REM-123119FC-1

Batch ID:	N/A	Test ID:	T000048972
Reported:	15-Jan-2020	Method:	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type:	Other		
Test:	Metals		

HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

FINAL APPROVAL

 Sam Smith
15-Jan-2020
10:20 AM

PREPARED BY / DATE

 David Green
15-Jan-2020
11:03 AM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

Certificate of Analysis

Cannaray Limited

Sample Name:	Cannaray Code - OD300E	Eurofins Sample:	9266005
Project ID	CANNAR_HAR-20200211-0003	Receipt Date	10-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	300mg – E53379B	Login Date	11-Feb-2020
Sample Serving Size		Date Started	20-Feb-2020
Description	Oral Drops 300mg CBD, 10mg per dose, 30ml	Sampled	Sample results apply as received
		Online Order	20

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	0.00280 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	<0.00250 %
CBD	1.16 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	<0.00250 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
Total Cannabinoids	1.16 %
Total THC (THC + (THCA x 0.877))	<0.00500 %
Total CBD (CBD + (CBDA x 0.877))	1.16 %

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Harrogate

Otley Road Harrogate, North Yorkshire, United Kingdom HG3 1PY GBR

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection, " First Action Method, Journal of AOAC International, Future Issue

Certificate of Analysis

Cannaray Limited

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Harrogate****Christopher Houlton - Director**

Eurofins Food Integrity Testing UK Limited
Otley Road
Harrogate North Yorkshire, United Kingdom HG3 1PY
+44 0 1423 635864



10510

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.

Certificate of Analysis

Cannaray Limited

Sample Name:	Cannaray Code - OD300E	Eurofins Sample:	9266006
Project ID	CANNAR_HAR-20200211-0003	Receipt Date	10-Feb-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	300mg – E53529D	Login Date	11-Feb-2020
Sample Serving Size		Date Started	20-Feb-2020
Description	Oral Drops 300mg CBD, 10mg per dose, 30ml	Sampled	Sample results apply as received
		Online Order	20

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	0.00273 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	<0.00250 %
CBD	1.16 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	<0.00250 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
Total Cannabinoids	1.16 %
Total THC (THC + (THCA x 0.877))	<0.00500 %
Total CBD (CBD + (CBDA x 0.877))	1.16 %

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Harrogate

Otley Road Harrogate, North Yorkshire, United Kingdom HG3 1PY GBR

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection, " First Action Method, Journal of AOAC International, Future Issue

Certificate of Analysis

Cannaray Limited

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Harrogate****Christopher Houlton - Director**

Eurofins Food Integrity Testing UK Limited
Otley Road
Harrogate North Yorkshire, United Kingdom HG3 1PY
+44 0 1423 635864



10510

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.