



Innovational Laboratories, LLC.
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CoA # 19020411
 CoA Date 02/22/2019
 CoA Status Final

CERTIFICATE OF ANALYSIS

Customer Address
 Vitality CBD Ltd
 Unit 19, Wainwright Street Ind Est,
 Aston, Birmingham, West Midlands
 B6 5TJ

Date Received 2/15/2019
Condition Good
Temp Ambient

Sample Name JP012219SA1-2

PO #

Sample Lot # COUK-028-SG-I-2

Remarks

Analysis	Specification	Test Result	Test Method	Test Date
Cannabidiol (CBD)	N/A	312.5 mg/2 oz	HPLC/UPLC	02/20/2019
Cannabidiolic Acid (CBDA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabidivarin (CBDV)	N/A	Not Detected	HPLC/UPLC	as above
Cannabidivarinic Acid (CBDVA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabigerol (CBG)	N/A	Not Detected	HPLC/UPLC	as above
Cannabinol (CBN)	N/A	Not Detected	HPLC/UPLC	as above
Tetrahydrocannabinol (THC)	N/A	Not Detected	HPLC/UPLC	as above
delta-8 Tetrahydrocannabinol	N/A	Not Detected	HPLC/UPLC	as above
Cannabichromene (CBC)	N/A	Not Detected	HPLC/UPLC	as above
Tetrahydrocannabinolic (THCA)	N/A	Not Detected	HPLC/UPLC	as above

Authorized by  02/22/2019
 Guy Weerasekera, Ph.D. / Lab Director

These results apply only to the items tested. This certificate of analysis shall not be reproduced except in full without written consent of iLab.
 Estimation of uncertainty of measurement is available upon request.



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CoA # 19020405
 CoA Date 02/22/2019
 CoA Status Final

CERTIFICATE OF ANALYSIS

Customer Address
 Vitality CBD Ltd
 Unit 19, Wainwright Street Ind Est,
 Aston, Birmingham, West Midlands
 B6 5TJ

Date Received 2/15/2019
Condition Good
Temp Ambient

Sample Name JP012219SA1-1


PO #

Sample Lot # COUK-028-SG-I-1

Remarks

Analysis	Specification	Test Result	Test Method	Test Date
Cannabidiol (CBD)	N/A	314.7 mg/2 oz	HPLC/UPLC	02/19/2019
Cannabidiolic Acid (CBDA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabidivarin (CBDV)	N/A	Not Detected	HPLC/UPLC	as above
Cannabidivarinic Acid (CBDVA)	N/A	Not Detected	HPLC/UPLC	as above
Cannabigerol (CBG)	N/A	Not Detected	HPLC/UPLC	as above
Cannabinol (CBN)	N/A	Not Detected	HPLC/UPLC	as above
Tetrahydrocannabinol (THC)	N/A	Not Detected	HPLC/UPLC	as above
delta-8 Tetrahydrocannabinol	N/A	Not Detected	HPLC/UPLC	as above
Cannabichromene (CBC)	N/A	Not Detected	HPLC/UPLC	as above
Tetrahydrocannabinolic (THCA)	N/A	Not Detected	HPLC/UPLC	as above

Authorized by

 02/22/2019
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CERTIFICATE OF INTERNAL ANALYSIS
TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free **TERPENE RESULTS*:**
BATCH No: CONO18-99

Date of Manufacture: 27Dec2018

Date of Analysis: 28Dec2018

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	90.53	905.26
CBG	<0.03	<0.30
CBN	<0.03	<0.30
THC	ND**	ND**
CBC	<0.03	<0.30
THC-A	ND**	ND**
CBD-A	<0.03	<0.30
MAX THC	ND**	ND**
MAX CBD	90.53	905.26
TOTAL ACTIVE	90.53	905.26

	Wt. (%)		Wt. (%)
β -Bisabolene	1.0-3.0	Camphene	0.1-0.2
β -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
β -Maaliene	0.5-2.0	α -Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
β -Caryophyllene	0.1-1.0	Linalool	< 0.1
α -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α -Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ -3-Carene	< 0.1

Pesticides*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclobutrazol	ND***

Test ID: 122818KP

*Batches are sent out regularly for testing, not all batches tested

** ND = Not Detected using a validated high-performance liquid chromatography test method

*** Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

SPECIAL NOTE: Process enhancement has recently been implemented to remove excess pigmentation from the oil due to customer requests. While the color of the future oil batches will be golden to light amber, its composition and the full spectrum characteristics remain unchanged.

Residual Solvents*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

Heavy Metals*:

Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

Batch Release:

Chemist: Kelly Pilkington

Manager: Ashley Orosco

(Updated 09Jan2019)

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 10Jan2019
 09Jan2019
 09Jan2019