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TEST REPORT

REPORT NO.: 19-10-15250

*Celtic Wind Crops Limited
Malta House
Sean O'Carroll Street
Ardee
Co.Louth.
Att : Mr. Sean McCourt.*

<i>Date of Sample:</i>	<i>22-October-2019</i>	<i>Test Report Number:</i>	<i>19-10-15250</i>
<i>Date of Receipt:</i>	<i>24-October-2019</i>	<i>Sample Type:</i>	<i>1,000mg CBD Multi-Complex Hemp Oil</i>
<i>Date of Report:</i>	<i>31-October-2019</i>	<i>Sample Reference:</i>	<i>Ref. BN01-008-0919</i>
<i>Laboratory Ref. Number:</i>	<i>19-17450</i>	<i>Sample Presentation:</i>	<i>10mls. Dispensing Bottle</i>
		<i>Weight of sample :</i>	

Abbreviations :

% Vol : *percentage volume.*

% wt: *percentage weight.*

mg/L : *milligrams per litre (ppm).*

ppm : *parts per million or mg per litre.*

mg/g: *milligrams per gram.*

Cannabinoid Profile Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
Cannabidiol CBD.	HPLC-PDA	JHG-249	% mass	9.712
Cannabigerol CBG.	HPLC-PDA	JHG-249	% mass	0.075
Cannabichromene CBC.	HPLC-PDA	JHG-249	% mass	0.166
Delta-9-Tetrahydrocannabinol THC.	HPLC-PDA	JHG-249	% mass	Not Detected
Cannabidiol acid CBD-A	HPLC-PDA	JHG-249	% mass	0.106
Cannabigerolic acid CBG-A	HPLC-PDA	JHG-249	% mass	0.055
Tetrahydrocannabivarin THCV	HPLC-PDA	JHG-249	% mass	Not Detected
Tetrahydrocannabivarin Carboxylic acid THCV-A	HPLC-PDA	JHG-249	% mass	Not Detected

Comment:

Result of Delta-9-Tetrahydrocannabinol (THC) of less than 0.0005% is based on Limit of Detection (LOD) for the Instrumentation used in this method. This is the smallest concentration of analyte that can be reported and is based on analysis of a minimum of 7 spiked samples and 7 method blank samples.

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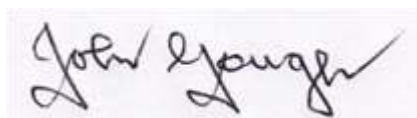
Microbiological Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
Staph. aureus	Pour Plate Count	APHA 9222	CFU/g.	6
Salmonella spp.	Pour Plate Count	APHA 9222	CFU/25g.	< 1
Listeria spp.	Pour Plate Count	APHA 9222	CFU/25g.	< 1
Bacillus cereus	Pour Plate Count	APHA 9222	CFU/g.	< 1
Clostridia spp.	Pour Plate Count	APHA 9222	CFU/g.	< 1
Enterobacteriaceae	Pour Plate Count	APHA 9222	CFU/g.	< 1
Esch. Coli	Pour Plate Count	APHA 9222	CFU/g.	< 1
Yeasts/Molds	Pour Plate Count	APHA 9222	CFU/g.	14

Terpenes Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
β -Caryophellene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	49
Myrcene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	37
β -Sitosterol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	32
Terpinolene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	31
α -Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	35
β -Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	22.40
Bergamotene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	23.50
Limonene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	15
Merolidol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	17
Linalool	GC-FID	Shimadzu HS-GC-FID	mg/kg.	21.25
Humulene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	14.50
Bisabolol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	14.50
Valencene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	19
Terpinol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	20
Borneol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	19
Delta-3-Carene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	Not Detected

J.W. GOUGH



Technical Signatory.

Dated: 31st. October 2019