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TEST REPORT

REPORT NO.: 19-09-14889

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

<i>Date of Sample:</i>	<i>11-September-2019</i>	<i>Test Report Number:</i>	<i>19-09-14889</i>
<i>Date of Receipt:</i>	<i>13-September-2019</i>	<i>Sample Type:</i>	<i>300mg CBD Multi-Complex Hemp Oil</i>
<i>Date of Report:</i>	<i>19-September-2019</i>	<i>Sample Reference:</i>	<i>Ref. BN02-007-0919</i>
<i>Laboratory Ref. Number:</i>	<i>19-17089</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	2.875
Cannabigerol CBG.	HPLC-PDA	JHG-249	% mass	0.090
Cannabichromene CBC.	HPLC-PDA	JHG-249	% mass	0.117
Delta-9-Tetrahydrocannabinol THC.	HPLC-PDA	JHG-249	% mass	Not Detected
Cannabidiol acid CBD-A	HPLC-PDA	JHG-249	% mass	0.133
Cannabigerolic acid CBG-A	HPLC-PDA	JHG-249	% mass	0.006
Tetrahydrocannabivarin THCV	HPLC-PDA	JHG-249	% mass	Not Detected
Tetrahydrocannabivarin Carboxylic acid THCV-A	HPLC-PDA	JHG-249	% mass	Not Detected

Gluten	RP-HPLC	JHG-FT-017	ppm.	< 1
Water Activity A_w	Manometric Pressure Measurement	ASTM D8196-18	Without Unit	0.72 A_w
Density	Densitometry	EN ISO 12154:2014	g/cm^3	0.9359

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.	4
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.	6

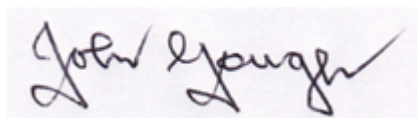
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Terpenes Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
β -Caryophellene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	18.80
Myrcene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	15.50
β -Sitosterol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	16
Terpinolene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	12
A-Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	9.50
β -Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	6.75
Bergamotene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	5
Limonene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	7
Merolidol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	8.50
Linalool	GC-FID	Shimadzu HS-GC-FID	mg/kg.	8.45
Humulene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	7
Bisabolol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	6.50
Valencene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	7.60
Terpinol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	6.55
Borneol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	9
Delta-3-Carene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	10

J.W. GOUGH



Technical Signatory.

Dated: 19th. September 2019