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**TEST REPORT**

**REPORT NO.: 19-10-15251**

*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>19-10-15251</i>
<i>Date of Receipt:</i>	<i>24-October-2019</i>	<i>Sample Type:</i>	<i>1,500mg CBD Multi-Complex Hemp Oil</i>
<i>Date of Report:</i>	<i>31-October-2019</i>	<i>Sample Reference:</i>	<i>Ref. BN01-004-1019</i>
<i>Laboratory Ref. Number:</i>	<i>19-17451</i>	<i>Sample Presentation:</i>	<i>30mls. 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	4.880
Cannabigerol CBG.	HPLC-PDA	JHG-249	% mass	0.048
Cannabichromene CBC.	HPLC-PDA	JHG-249	% mass	0.090
Delta-9-Tetrahydrocannabinol THC.	HPLC-PDA	JHG-249	% mass	Not Detected
Cannabidiol acid CBD-A	HPLC-PDA	JHG-249	% mass	0.055
Cannabigerolic acid CBG-A	HPLC-PDA	JHG-249	% mass	0.034
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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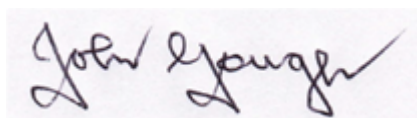
### Microbiological Analysis

<b>Parameter</b>	<b>Method of Analysis</b>	<b>Method Reference</b>	<b>Units</b>	<b>Reported Levels</b>
Staph. aureus	Pour Plate Count	APHA 9222	CFU/g.	5
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.	15

## Terpenes Analysis

Parameter	Method of Analysis	Method Reference	Units	Reported Levels
$\beta$ -Caryophellene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	31
Myrcene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	19
$\beta$ -Sitosterol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	14.50
Terpinolene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	15.50
A-Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	14.90
$\beta$ -Pinene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	10
Bergamotene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	10
Limonene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	8.25
Merolidol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	8.10
Linalool	GC-FID	Shimadzu HS-GC-FID	mg/kg.	11
Humulene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	9
Bisabolol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	10.20
Valencene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	9.90
Terpinol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	11
Borneol	GC-FID	Shimadzu HS-GC-FID	mg/kg.	9
Delta-3-Carene	GC-FID	Shimadzu HS-GC-FID	mg/kg.	0.08

**J.W. GOUGH**



Technical Signatory.

Dated: 31<sup>st</sup>. October 2019