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**TEST REPORT**

**REPORT NO.: 18-12-12800**

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

|                                |                         |                             |  |
|--------------------------------|-------------------------|-----------------------------|--|
| <i>Date of Sample:</i>         | <i>13-December-2018</i> | <i>Test Report Number:</i>  | <i>18-12-12800</i>   |
| <i>Date of Receipt:</i>        | <i>14-December-2018</i> | <i>Sample Type:</i>         | <i>CBD Multi-Complex<br/>Hemp Oil Concentrate<br/>Sample</i> |
| <i>Date of Report:</i>         | <i>27-December-2018</i> | <i>Sample Reference:</i>    | <i>Ref. BN09/003/0119</i>                                    |
| <i>Laboratory Ref. Number:</i> | <i>18-15000</i>         | <i>Sample Presentation:</i> | <i>10mls. 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.*

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## Cannabinoid Profile Analysis

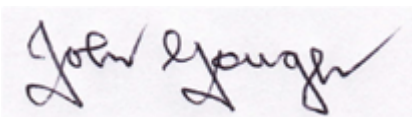
| Parameter                                     | Method of Analysis | Method Reference | Units  | Reported Levels |
|---|--------------------|------------------|--------|-----------------|
| Cannabidiol CBD.                              | UHPLC-MS-MS        | JHG-249          | % mass | 5.003           |
| Cannabigerol CBG.                             | UHPLC-MS-MS        | JHG-249          | % mass | 0.212           |
| Cannabichromene CBC.                          | UHPLC-MS-MS        | JHG-249          | % mass | 0.080           |
| Delta-9-Tetrahydrocannabinol THC.             | UHPLC-MS-MS        | JHG-249          | % mass | < 0.002         |
| Cannabidiol acid CBD-A                        | UHPLC-MS-MS        | JHG-249          | % mass | 0.178           |
| Cannabigerolic acid CBG-A                     | UHPLC-MS-MS        | JHG-249          | % mass | 0.069           |
| Tetrahydrocannabivarin THCv                   | UHPLC-MS-MS        | JHG-249          | % mass | < 0.002         |
| Tetrahydrocannabivarin Carboxylic acid THCv-A | UHPLC-MS-MS        | JHG-249          | % mass | < 0.002         |

## Microbiological Analysis

| Parameter          | Method of Analysis | Method Reference | Units    | Reported Levels |
|--------------------|--------------------|------------------|----------|-----------------|
| Staph. aureus      | Pour Plate Count   | APHA 9222        | CFU/g.   | < 1             |
| 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.   | 4               |

|                      |                                 |               |              |            |
|----------------------|---------------------------------|---------------|--------------|------------|
| Gluten               | RP-HPLC                         | JHG-FT-017    | ppm.         | < 1        |
| Water Activity $A_w$ | Manometric Pressure Measurement | ASTM D8196-18 | Without Unit | 0.55 $A_w$ |

**J.W. GOUGH**



**Technical Signatory.**

**Dated : 27<sup>th</sup>. December 2018**