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TEST REPORT

REPORT NO.: 20-03-16328

*Cannagrow Biosciences Limited
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United Kingdom.
Attn.: Mr. David Extance*

| | | | |
|--------------------------------|-------------------------|-----------------------------|---|
| <i>Date of Sample:</i> | <i>28-February-2020</i> | <i>Test Report Number:</i> | <i>20-03-16328</i> |
| <i>Date of Receipt:</i> | <i>02-March-2020</i> | <i>Sample Type:</i> | <i>CBD Hemp Oil Sample 900mg Tincture Sample</i> |
| <i>Date of Report:</i> | <i>15-March-2020</i> | <i>Sample Reference:</i> | <i>Ref. A501 B301 C601/9</i> |
| <i>Laboratory Ref. Number:</i> | <i>20-18528</i> | <i>Sample Presentation:</i> | <i>30mls. Dispensing Bottle Weight of sample : 10mls Sample Volume.</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.*

Terpenes Analysis

| Parameter | Method of Analysis | Method Reference | Units | Reported Levels |
|-----------------|--------------------|--------------------|--------|-----------------|
| β-Caryophellene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 7 |
| Myrcene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 5 |
| β-Sitosterol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 5 |
| Terpinolene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 5.55 |
| Α-Pinene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 9 |
| β-Pinene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 6 |
| Bergamotene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 5.35 |
| Limonene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 5 |
| Merolidol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 2.99 |
| Linalool | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 8 |
| Humulene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 6.60 |
| Bisabolol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 4.45 |
| Valencene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 3.88 |
| Terpineol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 4.45 |
| Borneol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 1 |
| Delta-3-Carene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 1.46 |
| (Z)- β-Ocimene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 2 |
| (E)- β-Tarnesol | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 0.15 |
| Eremophelene | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 0.55 |
| Geranyl acetate | GC-FID | Shimadzu HS-GC-FID | mg/ml. | 2 |

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Cannabinoid Profile Analysis

| Parameter | Method of Analysis | CAS Number | Units | Reported Levels |
|--|---------------------------|-------------------|--------------|------------------------|
| Cannabidiol CBD. | HPLC-PDA | 13956-29-1 | mg/ml. | 29.500 |
| Cannabidiol acid CBD-A | HPLC-PDA | 1244-58-2 | mg/ml. | 0.250 |
| Cannabidivarin CBDV | HPLC-PDA | 24274-48-4 | mg/ml. | Not Detected |
| Cannabidivarinic acid CBVD-A | HPLC-PDA | 31932-13-5 | mg/ml. | Not Detected |
| Cannabigerol CBG. | HPLC-PDA | 25654-31-3 | mg/ml. | 0.250 |
| Cannabigerolic acid CBG-A | HPLC-PDA | 25555-57-1 | mg/ml. | 0.089 |
| Cannabichromene CBC. | HPLC-PDA | 23978-85-0 | mg/ml. | 0.009 |
| Cannabichromenic acid CBC-A | HPLC-PDA | 185505-15-1 | mg/ml. | 0.012 |
| Delta-8-Tetrahydrocannabinol THC. | HPLC-PDA | 5957-75-5 | mg/ml. | Not Detected |
| Delta-9-Tetrahydrocannabinol THC. | HPLC-PDA | 1972-08-03 | mg/ml. | Not Detected |
| Delta-9-Tetrahydrocannabinolic acid THC-A. | HPLC-PDA | 20675-51-8 | mg/ml. | Not Detected |
| Tetrahydrocannabivarin THCV | HPLC-PDA | 31262-37-0 | mg/ml. | Not Detected |
| Tetrahydrocannabivarin acid THCV-A | HPLC-PDA | 39986-26-0 | mg/ml. | Not Detected |
| Cannabinol CBN | HPLC-PDA | 521-35-7 | mg/ml. | Not Detected |
| Cannabinolic acid CBN-A | HPLC-PDA | 2808-39-1 | mg/ml. | Not Detected |
| Cannabicyclol CBL | HPLC-PDA | 21366-63-2 | mg/ml. | Not Detected |

Comment:

Result of Delta-9-Tetrahydrocannabinol (THC) and Delta-9-Tetrahydrocannabinolic acid (THC-A) of less than 0.005mg/ml. 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/ml. | ND |
| Salmonella spp. | Pour Plate Count | APHA 9222 | CFU/ml | ND |
| Listeria spp. | Pour Plate Count | APHA 9222 | CFU/25ml. | ND |
| Bacillus cereus | Pour Plate Count | APHA 9222 | CFU/ml. | ND |
| Clostridia spp. | Pour Plate Count | APHA 9222 | CFU/ml. | ND |
| Enterobacteriaceae | Pour Plate Count | APHA 9222 | CFU/ml. | ND |
| Esch. Coli | Pour Plate Count | APHA 9222 | CFU/ml. | ND |
| Yeasts/Molds | Pour Plate Count | APHA 9222 | CFU/ml. | 7 |

Heavy Metals Analysis

| Parameter | Method of Analysis | Method Reference | Units | Reported Levels |
|-----------------|--------------------|------------------|--------|-----------------|
| Mercury as Hg. | Cold Vapour AAS | EC 1881 | µg/ml. | < 0.002 |
| Chromium as Cr. | ICP-OES | EC 1881 | µg/ml. | < 0.002 |
| Arsenic as As. | ICP-OES | EC 1881 | µg/ml. | < 0.0005 |
| Cadmium as Cd. | ICP-OES | EC 1881 | µg/ml. | < 0.003 |
| Nickel as Ni. | ICP-OES | EC 1881 | µg/ml. | < 0.002 |
| Lead as Pb. | ICP-OES | EC 1881 | µg/ml. | < 0.002 |

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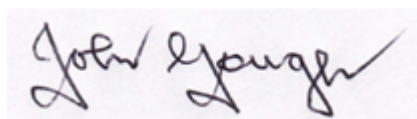
Pesticide Residues Analysis

| Parameter | Method of Analysis | Method Reference | Units | Reported Levels |
|----------------------|--------------------|------------------|--------|-----------------|
| Organochlorine | UHPLC-MS | APHA 6630 | µg/ml. | < 0.002 |
| Organophosphorus | UHPLC-MS | APHA 6630 | µg/ml. | < 0.002 |
| Organonitrogen | UHPLC-MS | APHA 6630 | µg/ml. | < 0.050 |
| Carbamate Pesticides | UHPLC-MS | APHA 6630 | µg/ml. | < 0.030 |
| Pyrethroid Residues | UHPLC-MS | APHA 6630 | µg/ml. | < 0.001 |
| Organotin | UHPLC-MS | APHA 6630 | µg/ml. | < 0.002 |

Aflatoxins/Ochratoxins Analysis

| Parameter | Method of Analysis | Method Reference | Units | Reported Levels |
|-----------------|--------------------|------------------|--------|-----------------|
| Ochratoxin | HPLC-PDA | EC 401 | µg/ml. | < 0.01 |
| Aflatoxins Scan | HPLC-PDA | EC 401 | µg/ml. | < 0.01 |
| B1 | HPLC-PDA | EC 401 | µg/ml. | < 0.002 |
| B2 | HPLC-PDA | EC 401 | µg/ml. | < 0.05 |
| G1 | HPLC-PDA | EC 401 | µg/ml. | < 0.001 |
| G2 | HPLC-PDA | EC 401 | µg/ml. | < 0.005 |

J.W. GOUGH



Technical Signatory.

Dated: 15th. March 2020