

**BUD & TENDER LTD**  
**1 HARLEY STREET**  
**MARYLEBONE**  
**LONDON, UK W1G 9QD**

# Certificate of Analysis

**ACS** | CANNABIS & HEMP  
 LABORATORY | BEYOND COMPLIANCE

Order #: BUD200826-030012      Order Date: 2020-08-26      Collection Date: 2020-08-31      Report Date: 2020-09-18

Batch #: BTO40-0011  
 Sample #: AAA0044  
 Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
 Extracted From: Industrial Hemp  
 Description: Broad Spectrum 40% CBD Oil

Method: SOP-3



|                             |                                      |                                    |
|-----------------------------|--------------------------------------|------------------------------------|
| Potency<br><b>Tested</b>    | Terpenes<br><b>Tested</b>            | Heavy Metals<br><b>Passed</b>      |
| Mycotoxins<br><b>Passed</b> | Pesticides<br><b>Passed</b>          | Residual Solvents<br><b>Passed</b> |
| Pathogenic<br><b>Passed</b> | Microbiology (qPCR)<br><b>Passed</b> | Flavonoids<br><b>Tested</b>        |

|                                  |                                     |                                      |
|----------------------------------|-------------------------------------|--------------------------------------|
| <b>Total CBD</b><br>40.260%      | <b>Total THC</b><br>Not Detected    | <b>Total CBG</b><br>1.674%           |
| <b>Total CBN</b><br>Not Detected | <b>Other Cannabinoids</b><br>2.615% | <b>Total Cannabinoids</b><br>44.549% |

## Potency - 17 (Tested)

| Potency - 17 (Tested) |               |       |         |             |               |       |         | (HPLC)           |               |        |         |
|-----------------------|---------------|-------|---------|-------------|---------------|-------|---------|------------------|---------------|--------|---------|
| Analyte               | Result (mg/g) | (%)   | LOQ (%) | Analyte     | Result (mg/g) | (%)   | LOQ (%) | Analyte          | Result (mg/g) | (%)    | LOQ (%) |
| CBC                   | 13.370        | 1.337 | 0.001   | CBCA        | <LOQ          | 0.001 |         | CBD              | 402.600       | 40.260 | 0.001   |
| CBDA                  | <LOQ          | 0.001 |         | CBDV        | 11.270        | 1.127 | 0.001   | CBDVA            | <LOQ          | 0.001  |         |
| CBG                   | 16.740        | 1.674 | 0.001   | CBGA        | <LOQ          | 0.001 |         | CBL              | <LOQ          | 0.001  |         |
| CBN                   | <LOQ          | 0.001 |         | CBNA        | <LOQ          | 0.001 |         | CBT              | 1.512         | 0.151  | 0.001   |
| Delta-8 THC           | <LOQ          | 0.001 |         | Delta-9 THC | <LOQ          | 0.001 |         | THCA-A           | <LOQ          | 0.001  |         |
| THCV                  | <LOQ          | 0.001 |         | THCVA       | <LOQ          | 0.001 |         | <b>Total CBD</b> | 402.600       | 40.260 | 0.001   |
| <b>Total THC</b>      | <LOQ          | 0.001 |         |             |               |       |         |                  |               |        |         |

\*Total CBD = CBD + (CBD-A \* 0.877), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Other Cannabinoids Total = CBC + CBDV + THC + THCV-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV-A (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection

Xueli Gao  
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Lab Toxicologist

Aixia Sun  
 D.H.Sc., M.Sc., B.Sc., MT (AAB)

Principal Scientist

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 Extracted From: Industrial Hemp  
 Description: Broad Spectrum 40% CBD Oil

Method: SOP-3



## Terpenes - FL (Tested)

(GC/GCMS)

| Analyte             | Result (mg/g) | (%)   | LOQ (%) | Analyte             | Result (mg/g) | (%)   | LOQ (%) | Analyte         | Result (mg/g) | (%)   | LOQ (%) |
|---------------------|---------------|-------|---------|---------------------|---------------|-------|---------|-----------------|---------------|-------|---------|
| (+)-Cedrol          | <LOQ          |       | 0.02    | (R)-(+)-Limonene    | 0.410         | 0.041 | 0.02    | 3-Carene        | <LOQ          |       | 0.02    |
| Alpha-Bisabolol     | <LOQ          |       | 0.02    | alpha-Cedrene       | <LOQ          |       | 0.02    | alpha-Farnesene | <LOQ          |       | 0.01    |
| alpha-Humulene      | <LOQ          |       | 0.02    | alpha-Phellandrene  | <LOQ          |       | 0.02    | Alpha-Pinene    | 0.700         | 0.070 | 0.02    |
| beta-Farnesene      | <LOQ          |       | 0.01    | Beta-Myrcene        | 5.430         | 0.543 | 0.02    | Alpha-Terpinene | <LOQ          |       | 0.02    |
| Borneol             | <LOQ          |       | 0.04    | Camphene            | <LOQ          |       | 0.02    | Beta-Pinene     | <LOQ          |       | 0.02    |
| Caryophyllene oxide | <LOQ          |       | 0.02    | cis-Nerolidol       | <LOQ          |       | 0.02    | Camphors        | <LOQ          |       | 0.04    |
| Fenchyl Alcohol     | <LOQ          |       | 0.02    | Farnesene           | <LOQ          |       | 0.02    | Eucalyptol      | <LOQ          |       | 0.02    |
| Guaiol              | <LOQ          |       | 0.02    | Gamma-Terpinene     | <LOQ          |       | 0.02    | Fenchone        | <LOQ          |       | 0.02    |
| Isopulegol          | <LOQ          |       | 0.02    | Hexahydrothymol     | <LOQ          |       | 0.02    | Geraniol        | <LOQ          |       | 0.02    |
| Ocimene             | <LOQ          |       | 0.014   | Linalool            | 0.080         | 0.008 | 0.02    | Geranyl acetate | <LOQ          |       | 0.02    |
| Sabinene Hydrate    | 0.070         | 0.007 | 0.02    | Pulegone            | <LOQ          |       | 0.02    | Isoborneol      | <LOQ          |       | 0.02    |
| trans-beta-Ocimene  | <LOQ          |       | 0.006   | Terpineol           | <LOQ          |       | 0.02    | Nerol           | <LOQ          |       | 0.02    |
|                     |               |       |         | Trans-Caryophyllene | 0.120         | 0.012 | 0.02    | Sabinene        | <LOQ          |       | 0.02    |
|                     |               |       |         |                     |               |       |         | Terpinolene     | <LOQ          |       | 0.02    |
|                     |               |       |         |                     |               |       |         | trans-Nerolidol | <LOQ          |       | 0.02    |
|                     |               |       |         |                     |               |       |         | Valencene       | <LOQ          |       | 0.02    |

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

Xueli Gao  
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Lab Toxicologist

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Principal Scientist

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Sample #: AAA0044  
Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
Extracted From: Industrial Hemp  
Description: Broad Spectrum 40% CBD Oil

Method: SOP-3



## Heavy Metals (Passed) (ICP-MS)

| Analyte      | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte      | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte   | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
|--------------|--------------------|--------------|-----------|--------------|--------------------|--------------|-----------|-----------|--------------------|--------------|-----------|
| Arsenic (As) | 1500               | <LOQ         | 100       | Cadmium (Cd) | 500                | <LOQ         | 100       | Lead (Pb) | 500                | <LOQ         | 100       |
| Mercury (Hg) | 3000               | <LOQ         | 100       |              |                    |              |           |           |                    |              |           |

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

## Mycotoxins (Passed) (LCMS/API/GCMS)

| Analyte      | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte         | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte      | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
|--------------|--------------------|--------------|-----------|-----------------|--------------------|--------------|-----------|--------------|--------------------|--------------|-----------|
| Aflatoxin B1 | 20                 | <LOQ         | 6         | Aflatoxin B2    | 20                 | <LOQ         | 6         | Aflatoxin G1 | 20                 | <LOQ         | 6         |
| Aflatoxin G2 | 20                 | <LOQ         | 6         | Aflatoxin Total | 20                 | <LOQ         | 6         | Ochratoxin A | 20                 | <LOQ         | 12        |

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Method: SOP-3

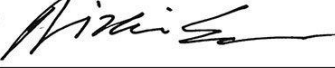


## Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

| Analyte               | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte               | Action Level (ppb) | Result (ppb) | LOQ (ppb) | Analyte                 | Action Level (ppb) | Result (ppb) | LOQ (ppb) |
|-----------------------|--------------------|--------------|-----------|-----------------------|--------------------|--------------|-----------|-------------------------|--------------------|--------------|-----------|
| Abamectin             | 300                | <LOQ         | 28.23     | Acephate              | 3000               | <LOQ         | 30        | Acequinocyl             | 2000               | <LOQ         | 48        |
| Acetamiprid           | 3000               | <LOQ         | 30        | Aldicarb              | 100                | <LOQ         | 30        | Azoxystrobin            | 3000               | <LOQ         | 10        |
| Bifenazate            | 3000               | <LOQ         | 30        | Bifenthrin            | 500                | <LOQ         | 30        | Boscalid                | 3000               | <LOQ         | 10        |
| Captan                | 3000               | <LOQ         | 30        | Carbaryl              | 500                | <LOQ         | 10        | Carbofuran              | 100                | <LOQ         | 10        |
| Chlorantraniliprole   | 3000               | <LOQ         | 10        | Chlordane             | 100                | <LOQ         | 10        | Chlorfenapyr            | 100                | <LOQ         | 30        |
| Chloromequat Chloride | 3000               | <LOQ         | 10        | Chlorpyrifos          | 100                | <LOQ         | 30        | Clofentezine            | 500                | <LOQ         | 30        |
| Cypermethrin          | 1000               | <LOQ         | 30        | Coumaphos             | 100                | <LOQ         | 48        | Cyfluthrin              | 1000               | <LOQ         | 30        |
| Dichlorvos            | 100                | <LOQ         | 30        | Daminozide            | 100                | <LOQ         | 30        | Diazinon                | 200                | <LOQ         | 30        |
| Ethoprophos           | 100                | <LOQ         | 30        | Dimethoate            | 100                | <LOQ         | 30        | Dimethomorph            | 3000               | <LOQ         | 48        |
| Fenhexamid            | 3000               | <LOQ         | 10        | Etofenprox            | 100                | <LOQ         | 30        | Etoxazole               | 1500               | <LOQ         | 30        |
| Fipronil              | 100                | <LOQ         | 30        | Fenoxycarb            | 100                | <LOQ         | 30        | Fenpyroximate           | 2000               | <LOQ         | 30        |
| Hexythiazox           | 2000               | <LOQ         | 30        | Fonicamid             | 2000               | <LOQ         | 30        | Fludioxonil             | 3000               | <LOQ         | 48        |
| Kresoxim Methyl       | 1000               | <LOQ         | 30        | Imazalil              | 100                | <LOQ         | 30        | Imidacloprid            | 3000               | <LOQ         | 30        |
| Methiocarb            | 100                | <LOQ         | 30        | Malathion             | 2000               | <LOQ         | 30        | Metalaxyl               | 3000               | <LOQ         | 10        |
| Mevinphos             | 100                | <LOQ         | 10        | Methomyl              | 100                | <LOQ         | 30        | methyl-Parathion        | 100                | <LOQ         | 10        |
| Oxamyl                | 500                | <LOQ         | 30        | Myclobutanil          | 3000               | <LOQ         | 30        | Naled                   | 500                | <LOQ         | 30        |
| Permethrin            | 1000               | <LOQ         | 30        | Paclobutrazol         | 100                | <LOQ         | 30        | Pentachloronitrobenzene | 200                | <LOQ         | 10        |
| Phosmet               | 200                | <LOQ         | 30        | Permethrinicis        | 1000               | <LOQ         | 30        | Permethrintrans         | 1000               | <LOQ         | 30        |
| Propiconazole         | 1000               | <LOQ         | 30        | Piperonylbutoxide     | 3000               | <LOQ         | 30        | Prallethrin             | 400                | <LOQ         | 30        |
| PyrethrinsCinerin 1   | 1000               | <LOQ         | 30        | Propoxur              | 100                | <LOQ         | 30        | Pyrethrins              | 1000               | <LOQ         | 30        |
| PyrethrinsJasmolin 2  | 1000               | <LOQ         | 30        | PyrethrinsCinerin 2   | 1000               | <LOQ         | 30        | PyrethrinsJasmolin 1    | 1000               | <LOQ         | 30        |
| Pyridaben             | 3000               | <LOQ         | 30        | PyrethrinsPyrethrin 1 | 1000               | <LOQ         | 30        | PyrethrinsPyrethrin 2   | 1000               | <LOQ         | 30        |
| Spinosyn A            | 3000               | <LOQ         | 10        | Spinetoram            | 3000               | <LOQ         | 10        | Spinosad                | 3000               | <LOQ         | 30        |
| Spirotetramat         | 3000               | <LOQ         | 30        | Spinosyn D            | 3000               | <LOQ         | 10        | Spiromesifen            | 3000               | <LOQ         | 30        |
| Thiacloprid           | 100                | <LOQ         | 30        | Spiroxamine           | 100                | <LOQ         | 30        | Tebuconazole            | 1000               | <LOQ         | 30        |
|                       |                    |              |           | Thiamethoxam          | 1000               | <LOQ         | 30        | Trifloxystrobin         | 3000               | <LOQ         | 30        |

(ppb)  intitation  
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 Aixia Sun      Principal Scientist  
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 Extracted From: Industrial Hemp  
 Description: Broad Spectrum 40% CBD Oil

Method: SOP-3



## Residual Solvents (CBD) (Passed)

| Analyte            | Action Level (ppm) | Result (ppm) | LOQ (ppm) |
|--------------------|--------------------|--------------|-----------|
| 1,1-Dichloroethene | 8                  | <LOQ         | 0.132     |
| Benzene            | 2                  | <LOQ         | 0.016     |
| Ethanol            | 5000               | <LOQ         | 16        |
| Ethylene Oxide     | 5                  | <LOQ         | 0.32      |
| Isopropyl alcohol  | 500                | <LOQ         | 8         |
| Naphtha            |                    | <LOQ         | 6.4       |
| Petroleum Ether-1  | 400                | <LOQ         | 6.4       |
| Propane            | 2100               | <LOQ         | 26.668    |
| Trichloroethylene  | 80                 | <LOQ         | 0.4       |

## (GC/GCMS)

| Analyte            | Action Level (ppm) | Result (ppm) | LOQ (ppm) |
|--------------------|--------------------|--------------|-----------|
| 1,2-dichloroethane | 5                  | <LOQ         | 0.032     |
| Butanes            | 2000               | <LOQ         | 13.32     |
| Ethyl Acetate      | 5000               | <LOQ         | 6.4       |
| Heptane            | 5000               | <LOQ         | 8         |
| Methanol           | 3000               | <LOQ         | 4         |
| Pentane            | 5000               | <LOQ         | 12        |
| Petroleum Ether-2  | 400                | <LOQ         | 6.4       |
| Toluene            | 890                | <LOQ         | 2.4       |
| Xylenes(o)         | 2170               | <LOQ         | 7.2       |

| Analyte            | Action Level (ppm) | Result (ppm) | LOQ (ppm) |
|--------------------|--------------------|--------------|-----------|
| Acetone            | 5000               | <LOQ         | 12        |
| Acetonitrile       | 410                | <LOQ         | 0.96      |
| Chloroform         | 60                 | <LOQ         | 0.032     |
| Ethyl Ether        | 5000               | <LOQ         | 8         |
| Hexane             | 290                | <LOQ         | 0.8       |
| Methylene chloride | 600                | <LOQ         | 2         |
| Petroleum Ether    | 400                | <LOQ         | 6.4       |
| Petroleum Ether-3  | 400                | <LOQ         | 6.4       |
| Total Xylenes      | 2170               | <LOQ         | 7.2       |
| Xylenes(p/m)       | 2170               | <LOQ         | 7.2       |

(ppm) = Parts per Million, (ppm) = (µg/g), LOQ = Limit of Quantitation

## Pathogenic SAE (qPCR) (Passed)

| Analyte   | Result (cfu/g) |
|---|----------------|
| Aspergillus (Flavus, Fumigatus, Niger, Terreus) | Absence in 1g  |

| Analyte                | Result (cfu/g) |
|------------------------|----------------|
| Pseudomonas aeruginosa | Absence in 1g  |

| Analyte               | Result (cfu/g) |
|-----------------------|----------------|
| Staphylococcus aureus | Absence in 1g  |

(cfu/g) = Colony Forming Unit per Gram

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**Extracted From:** Industrial Hemp  
**Description:** Broad Spectrum 40% CBD Oil

**Method:** SOP-3



## Total Yeast and Mold (Passed)

(qPCR)

| Analyte          | Action Level (cfu/g) | Result |
|------------------|----------------------|--------|
| Total Yeast/Mold | 100000               | Passed |

(cfu/g) = Colony Forming Unit per Gram

## Flavonoids (Tested)

(LCMS/MS)

| Analyte      | Result (ppm) | LOQ (ppm) | Analyte      | Result (ppm) | LOQ (ppm) | Analyte         | Result (ppm) | LOQ (ppm) |
|--------------|--------------|-----------|--------------|--------------|-----------|-----------------|--------------|-----------|
| Apigenin     | <LOQ         | 4         | Baicalin     | <LOQ         | 8         | Beta sitosterol | 49.610       | 5         |
| Cannflavin A | <LOQ         | 3.91      | Cannflavin B | <LOQ         | 4.84      | Cannflavin C    | <LOQ         | 2.36      |
| Chrysin      | <LOQ         | 2.5       | Fisetin      | <LOQ         | 5         | Kaempferol      | <LOQ         | 1         |
| Luteolin     | <LOQ         | 2.5       | Orientin     | <LOQ         | 5         | Quercetin       | <LOQ         | 2.23      |
| Rutin        | <LOQ         | 7.81      | Vitexin      | <LOQ         | 4         | Wogonin         | <LOQ         | 0.5       |

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

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