



## Certificate of Analysis for

Balanced Health Botanicals  
78 Beaver Brook Canyon Rd  
Evergreen, CO 80439  
Phone: (833) 215-8482



Received: 1/19/2022 @ 13.8 °C

Relief + Relax 30mg CBD Gummies - FSO  
Strawberry (4220110)

Sample ID: 2201558-001

### AC.1a: AC by mass via AOAC 990.12 (Petrifilm™) Analyzed 01/20/22

|                     |      |       |
|---------------------|------|-------|
| Aerobic Plate Count | < 10 | CFU/g |
|---------------------|------|-------|

### aW.1: aW via AquaLab Chilled-Mirror & Capacitance Methods Analyzed 01/20/22

|                |       |    |
|----------------|-------|----|
| Water Activity | 0.590 | aW |
|----------------|-------|----|

### CBD.1: Cannabinoids via MBL-HPLC2 Analyzed 01/21/22

|  |         |      |                               |         |      |
|--|---------|------|-------------------------------|---------|------|
| Cannabichromene (CBC)                          | 0.709   | mg/g | Cannabicitran (CBT)           | 0.294   | mg/g |
| Cannabidiol (CBD)                              | 10.2    | mg/g | Cannabidiolic Acid (CBDA)     | < 0.100 | mg/g |
| Cannabidivarin (CBDV)                          | < 0.100 | mg/g | Cannabigerol (CBG)            | 0.381   | mg/g |
| Cannabinol (CBN)                               | 0.291   | mg/g | Delta - 9 THC (THC)           | 0.308   | mg/g |
| Delta 9 - Tetrahydrocannabinolic Acid (THCA-A) | < 0.100 | mg/g | Potential CBD                 | 1.02    | %    |
| Potential THC                                  | 0.031   | %    | Tetrahydrocannabivarin (THCV) | < 0.100 | mg/g |

### TC.1a: TC by mass via AOAC 991.14, 998.03 (Petrifilm™) Analyzed 01/20/22

|                         |      |       |
|-------------------------|------|-------|
| Total Coliform Bacteria | < 10 | CFU/g |
|-------------------------|------|-------|

### EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Analyzed 01/20/22

|                  |      |       |
|------------------|------|-------|
| Escherichia coli | < 10 | CFU/g |
|------------------|------|-------|

### ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 01/21/22

|              |         |             |              |         |             |
|--------------|---------|-------------|--------------|---------|-------------|
| Arsenic (As) | < 0.020 | mg/kg (ppm) | Cadmium (Cd) | < 0.010 | mg/kg (ppm) |
| Lead (Pb)    | 0.026   | mg/kg (ppm) | Mercury (Hg) | < 0.005 | mg/kg (ppm) |

### LMono.2: Listeria monocytogenes via AOAC 121804 (Gene-Up® PCR System) Analyzed 01/20/22

|                        |          |       |
|------------------------|----------|-------|
| Listeria monocytogenes | Negative | /10 g |
|------------------------|----------|-------|

### Myc.1: Mycotoxins by LC-MS Analyzed 01/24/22

|              |      |             |              |      |             |
|--------------|------|-------------|--------------|------|-------------|
| Aflatoxin B1 | < 10 | µg/kg (ppb) | Aflatoxin B2 | < 10 | µg/kg (ppb) |
| Aflatoxin G1 | < 10 | µg/kg (ppb) | Aflatoxin G2 | < 10 | µg/kg (ppb) |
| Ochratoxin A | < 20 | µg/kg (ppb) |              |      |             |



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### Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins) Analyzed 01/24/22

|                         |       |             |                       |       |             |
|-------------------------|-------|-------------|-----------------------|-------|-------------|
| Abamectin (B1a + B1b)   | < 50  | µg/kg (ppb) | Acephate              | < 25  | µg/kg (ppb) |
| Acequinocyl             | < 10  | µg/kg (ppb) | Acetamiprid           | < 10  | µg/kg (ppb) |
| Aldicarb                | < 10  | µg/kg (ppb) | Azoxystrobin          | < 10  | µg/kg (ppb) |
| Bifenazate              | < 50  | µg/kg (ppb) | Bifenthrin            | < 10  | µg/kg (ppb) |
| Boscalid                | < 50  | µg/kg (ppb) | Carbaryl              | < 25  | µg/kg (ppb) |
| Carbofuran              | < 25  | µg/kg (ppb) | Chlorantraniliprole   | < 25  | µg/kg (ppb) |
| Chlorfenapyr            | < 100 | µg/kg (ppb) | Chlorpyrifos          | < 25  | µg/kg (ppb) |
| Clofentezine            | < 10  | µg/kg (ppb) | Coumaphos             | < 10  | µg/kg (ppb) |
| Cyfluthrin (Baythroid)  | < 50  | µg/kg (ppb) | Cypermethrin          | < 50  | µg/kg (ppb) |
| Daminozide              | < 25  | µg/kg (ppb) | Diazinon              | < 10  | µg/kg (ppb) |
| Dibrom (Naled)          | < 50  | µg/kg (ppb) | Dichlorvos            | < 50  | µg/kg (ppb) |
| Dimethoate              | < 25  | µg/kg (ppb) | Dimethomorph          | < 25  | µg/kg (ppb) |
| Ethofenprox             | < 10  | µg/kg (ppb) | Ethoprophos (Prophos) | < 25  | µg/kg (ppb) |
| Etoxazole               | < 25  | µg/kg (ppb) | Fenhexamid            | < 50  | µg/kg (ppb) |
| Fenoxycarb              | < 10  | µg/kg (ppb) | Fenpyroximate         | < 25  | µg/kg (ppb) |
| Fipronil                | < 10  | µg/kg (ppb) | Fonicamid             | < 25  | µg/kg (ppb) |
| Fludioxonil             | < 25  | µg/kg (ppb) | Hexythiazox           | < 10  | µg/kg (ppb) |
| Imazalil                | < 50  | µg/kg (ppb) | Imidacloprid          | < 10  | µg/kg (ppb) |
| Kresoxim Methyl         | < 10  | µg/kg (ppb) | Malathion             | < 100 | µg/kg (ppb) |
| Metalaxyl               | < 25  | µg/kg (ppb) | Methiocarb            | < 50  | µg/kg (ppb) |
| Methomyl                | < 25  | µg/kg (ppb) | Oxamyl                | < 10  | µg/kg (ppb) |
| Paclobutrazol           | < 25  | µg/kg (ppb) | Permethrins           | < 10  | µg/kg (ppb) |
| Phosdrin (Mevinphos)    | < 50  | µg/kg (ppb) | Phosmet               | < 10  | µg/kg (ppb) |
| Piperonyl Butoxide      | < 10  | µg/kg (ppb) | Prallethrin           | < 25  | µg/kg (ppb) |
| Propiconazol            | < 25  | µg/kg (ppb) | Propoxur              | < 25  | µg/kg (ppb) |
| Pyrethrins              | < 50  | µg/kg (ppb) | Pyridaben             | < 10  | µg/kg (ppb) |
| Spinetoram              | < 25  | µg/kg (ppb) | Spinosad A            | < 10  | µg/kg (ppb) |
| Spinosad D              | < 50  | µg/kg (ppb) | Spiromesifen          | < 25  | µg/kg (ppb) |
| Spirotetramat           | < 25  | µg/kg (ppb) | Spiroxamine           | < 25  | µg/kg (ppb) |
| Systhane (Myclobutanil) | < 50  | µg/kg (ppb) | Tebuconazol (Folicur) | < 25  | µg/kg (ppb) |
| Thiacloprid             | < 25  | µg/kg (ppb) | Thiamethoxam          | < 25  | µg/kg (ppb) |
| Trifloxystrobin         | < 10  | µg/kg (ppb) |                       |       |             |



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### ResSolv.2: Residual Solvents by Headspace GC/MS (VF-624MS) Analyzed 01/20/22

|                    |       |     |                             |       |     |
|--------------------|-------|-----|-----------------------------|-------|-----|
| (+/-)-2-Butanol    | < 10  | ppm | 1,1-Dichloroethene          | < 5   | ppm |
| 1,2-Dichloroethane | < 2   | ppm | 1,4-Dioxane                 | < 25  | ppm |
| 2,2-Dimethylbutane | < 25  | ppm | 2,3-Dimethylbutane          | < 25  | ppm |
| 2-Ethoxyethanol    | < 75  | ppm | 2-Methylbutane (Isopentane) | < 75  | ppm |
| 2-Methylpentane    | < 25  | ppm | 2-Propanol                  | < 50  | ppm |
| 3-Methylpentane    | < 25  | ppm | Acetone                     | < 50  | ppm |
| Acetonitrile       | < 50  | ppm | Benzene                     | < 2   | ppm |
| Chloroform         | < 50  | ppm | Cumene                      | < 100 | ppm |
| Cyclohexane        | < 50  | ppm | Diethyl ether               | < 50  | ppm |
| Ethanol            | 197   | ppm | Ethyl Acetate               | < 50  | ppm |
| Ethyl benzene      | < 25  | ppm | Ethylene Glycol             | < 100 | ppm |
| Ethylene Oxide     | < 50  | ppm | Heptane                     | < 50  | ppm |
| Hexane             | < 50  | ppm | Isobutane                   | < 100 | ppm |
| Isopropyl acetate  | < 10  | ppm | Methanol                    | < 50  | ppm |
| Methylene Chloride | < 50  | ppm | N,N-Dimethylformamide       | < 10  | ppm |
| n-Butane           | < 100 | ppm | Neopentane                  | < 100 | ppm |
| Pentane            | < 50  | ppm | Propane                     | < 100 | ppm |
| Tetrahydrofuran    | < 10  | ppm | Toluene                     | < 50  | ppm |
| Trichloroethene    | < 50  | ppm | Xylenes (p-, m-, o-)        | < 50  | ppm |

### Salm.1a: Salmonella via AOAC 081201, 2013.02 (BAX® PCR System) Analyzed 01/20/22

Salmonella spp. Negative /25 g

### STEC.1.a: Shiga toxin (stx) & Intimin (eae) genes via AOAC 091301 (BAX® PCR System, STEC Screen) Analyzed 01/20/22

Shiga toxin-producing E. coli Negative /25 g stx and eae genes Negative /25 g

### YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 01/20/22

Yeast and Mold < 10 CFU/g

Reported By: \_\_\_\_\_

Ryan Connelly, Chemistry Laboratory Manager, 1/26/2022

## LIMITS OF QUANTITATION

### Heavy Metals: ICPMS.1

| Analyte | LoQ         |
|---------|-------------|
| Arsenic | < 0.020 ppm |
| Cadmium | < 0.010 ppm |
| Mercury | < 0.005 ppm |
| Lead    | < 0.005 ppm |

### Mycotoxins: Myco.1

| Analyte      | LoQ         |
|--------------|-------------|
| Aflatoxin B1 | < 0.010 ppm |
| Aflatoxin B2 | < 0.010 ppm |
| Aflatoxin G1 | < 0.010 ppm |
| Aflatoxin G2 | < 0.010 ppm |
| Ochratoxin A | < 0.020 ppm |

### Residual Solvents: ResSolv.2

| Analyte                     | LoQ       |
|-----------------------------|-----------|
| (+/-)-2-Butanol             | < 10 ppm  |
| 1,1-Dichloroethene          | < 5 ppm   |
| 1,2-Dichloroethane          | < 2 ppm   |
| 1,4-Dioxane                 | < 25 ppm  |
| 2,2-Dimethylbutane          | < 25 ppm  |
| 2,3-Dimethylbutane          | < 25 ppm  |
| 2-Ethoxyethanol             | < 75 ppm  |
| 2-Methylbutane (Isopentane) | < 75 ppm  |
| 2-Methylpentane             | < 25 ppm  |
| 2-Propanol                  | < 50 ppm  |
| 3-Methylpentane             | < 25 ppm  |
| Acetone                     | < 50 ppm  |
| Acetonitrile                | < 50 ppm  |
| Benzene                     | < 2 ppm   |
| Chloroform                  | < 50 ppm  |
| Cumene                      | < 100 ppm |
| Cyclohexane                 | < 50 ppm  |
| Diethyl ether               | < 50 ppm  |
| Ethanol                     | < 50 ppm  |

| Analyte               | LoQ       |
|-----------------------|-----------|
| Ethyl Acetate         | < 50 ppm  |
| Ethyl benzene         | < 25 ppm  |
| Ethylene Glycol       | < 100 ppm |
| Ethylene Oxide        | < 50 ppm  |
| Heptane               | < 50 ppm  |
| Hexane                | < 50 ppm  |
| Isobutane             | < 100 ppm |
| Isopropyl acetate     | < 10 ppm  |
| Methanol              | < 50 ppm  |
| Methylene Chloride    | < 50 ppm  |
| N,N-Dimethylformamide | < 10 ppm  |
| n-Butane              | < 100 ppm |
| Neopentane            | < 100 ppm |
| Pentane               | < 50 ppm  |
| Propane               | < 100 ppm |
| Tetrahydrofuran       | < 10 ppm  |
| Toluene               | < 50 ppm  |
| Trichloroethene       | < 50 ppm  |
| Xylenes (p-, m-, o-)  | < 50 ppm  |



**Pesticides: Pest.1**

| Analyte                | LoQ         |
|------------------------|-------------|
| Abamectin (B1a + B1b)  | < 0.050 ppm |
| Acephate               | < 0.025 ppm |
| Acequinocyl            | < 0.010 ppm |
| Acetamiprid            | < 0.010 ppm |
| Aldicarb               | < 0.010 ppm |
| Azoxystrobin           | < 0.010 ppm |
| Bifenazate             | < 0.050 ppm |
| Bifenthrin             | < 0.010 ppm |
| Boscalid               | < 0.050 ppm |
| Carbaryl               | < 0.025 ppm |
| Carbofuran             | < 0.025 ppm |
| Chlorantraniliprole    | < 0.025 ppm |
| Chlorfenapyr           | < 0.100 ppm |
| Chlorpyrifos           | < 0.025 ppm |
| Clofentezine           | < 0.010 ppm |
| Coumaphos              | < 0.010 ppm |
| Cyfluthrin (Baythroid) | < 0.050 ppm |
| Cypermethrin           | < 0.050 ppm |
| Daminozide             | < 0.025 ppm |
| Diazinon               | < 0.010 ppm |
| Dibrom (Naled)         | < 0.050 ppm |
| Dichlorvos             | < 0.050 ppm |
| Dimethoate             | < 0.025 ppm |
| Dimethomorph           | < 0.025 ppm |
| Ethofenprox            | < 0.010 ppm |
| Ethoprophos (Prophos)  | < 0.025 ppm |
| Etoxazole              | < 0.025 ppm |
| Fenhexamid             | < 0.050 ppm |
| Fenoxycarb             | < 0.010 ppm |
| Fenpyroximate          | < 0.025 ppm |
| Fipronil               | < 0.010 ppm |
| Fonicamid              | < 0.025 ppm |

| Analyte                 | LoQ         |
|-------------------------|-------------|
| Fludioxonil             | < 0.025 ppm |
| Hexythiazox             | < 0.010 ppm |
| Imazalil                | < 0.050 ppm |
| Imidacloprid            | < 0.010 ppm |
| Kresoxim Methyl         | < 0.010 ppm |
| Malathion               | < 0.100 ppm |
| Metalaxyl               | < 0.025 ppm |
| Methiocarb              | < 0.050 ppm |
| Methomyl                | < 0.025 ppm |
| Oxamyl                  | < 0.010 ppm |
| Paclbutrazol            | < 0.025 ppm |
| Permethrins             | < 0.010 ppm |
| Phosdrin (Mevinphos)    | < 0.050 ppm |
| Phosmet                 | < 0.010 ppm |
| Piperonyl Butoxide      | < 0.010 ppm |
| Prallethrin             | < 0.025 ppm |
| Propiconazol            | < 0.025 ppm |
| Propoxur                | < 0.025 ppm |
| Pyrethrins              | < 0.050 ppm |
| Pyridaben               | < 0.010 ppm |
| Spinetoram              | < 0.025 ppm |
| Spinosad A              | < 0.010 ppm |
| Spinosad D              | < 0.050 ppm |
| Spiromesifen            | < 0.025 ppm |
| Spirotetramat           | < 0.025 ppm |
| Spiroxamine             | < 0.025 ppm |
| Systhane (Myclobutanil) | < 0.050 ppm |
| Tebuconazol (Folicur)   | < 0.025 ppm |
| Thiacloprid             | < 0.025 ppm |
| Thiamethoxam            | < 0.025 ppm |
| Trifloxystrobin         | < 0.010 ppm |

**Cannabinoids: CBD.1**

| Analyte            | LoQ          |
|--------------------|--------------|
| Cannabichromene    | < 0.200 mg/g |
| Cannabicitran      | < 0.200 mg/g |
| Cannabidiol        | < 0.100 mg/g |
| Cannabidiolic Acid | < 0.100 mg/g |
| Cannabidivarin     | < 0.100 mg/g |

| Analyte                | LoQ          |
|------------------------|--------------|
| Cannabigerol           | < 0.100 mg/g |
| Cannabinol             | < 0.100 mg/g |
| Delta - 9 THC          | < 0.0100 %   |
| Delta 9 - THCA         | < 0.0100 %   |
| Tetrahydrocannabivarin | < 0.100 mg/g |

**Microbials: APC.1a, EC.1a, TC.1a, Y&M.1a, STEC.1.a, Salm.1a, LMono.2**

| Analyte          | LoQ        |
|------------------|------------|
| APC              | < 10 CFU/g |
| Coliform/E. coli | < 10 CFU/g |
| Yeast/Mold       | < 10 CFU/g |

| Analyte          | LoQ             |
|------------------|-----------------|
| Salmonella       | Negative in 25g |
| STEC             | Negative in 25g |
| L. monocytogenes | Negative in 10g |