



Certificate of Analysis for

Balanced Health Botanicals
1500 W Hampden Ave, Unit 5G
Sheridan, CO 80110



Received: 1/25/2022 @ 13.4 °C

Calm Synergy Kava Root Capsule (400mg
Kava + 30mg CBD) (0071919)

Sample ID: 2201745-001

AC.1a: AC by mass via AOAC 990.12 (Petrifilm™) Analyzed 01/25/25

| | | |
|---------------------|-------|-------|
| Aerobic Plate Count | 4,700 | CFU/g |
|---------------------|-------|-------|

aW.1: aW via AquaLab Chilled-Mirror & Capacitance Methods Analyzed 01/27/22

| | | |
|----------------|-------|----|
| Water Activity | 0.433 | aW |
|----------------|-------|----|

CBD.1: Cannabinoids via MBL-HPLC2 Analyzed 01/27/22

| | | | | | |
|--|---------|---------|-------------------------------|---------|---------|
| Cannabichromene (CBC) | 4.82 | mg/unit | Cannabicitran (CBT) | 0.456 | mg/unit |
| Cannabidiol (CBD) | 31.0 | mg/unit | Cannabidiolic Acid (CBDA) | 1.13 | mg/unit |
| Cannabidivarin (CBDV) | 0.465 | mg/unit | Cannabigerol (CBG) | < 0.100 | mg/unit |
| Cannabinol (CBN) | 0.252 | mg/unit | Delta - 9 THC (THC) | 0.867 | mg/unit |
| Delta 9 - Tetrahydrocannabinolic Acid (THCA-A) | < 0.100 | mg/unit | Potential CBD | 3.78 | % |
| Potential THC | 0.115 | % | Tetrahydrocannabivarin (THCV) | < 0.100 | mg/unit |

TC.1a: TC by mass via AOAC 991.14, 998.03 (Petrifilm™) Analyzed 01/25/25

| | | |
|-------------------------|-------|-------|
| Total Coliform Bacteria | < 100 | CFU/g |
|-------------------------|-------|-------|

EC.1a: EC by mass via AOAC 991.14, 998.08 (Petrifilm™) Analyzed 01/25/25

| | | |
|------------------|-------|-------|
| Escherichia coli | < 100 | CFU/g |
|------------------|-------|-------|

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 01/26/22

| | | | | | |
|--------------|-------|-------------|--------------|---------|-------------|
| Arsenic (As) | 0.033 | mg/kg (ppm) | Cadmium (Cd) | < 0.010 | mg/kg (ppm) |
| Lead (Pb) | 0.233 | mg/kg (ppm) | Mercury (Hg) | < 0.005 | mg/kg (ppm) |

LMono.2: Listeria monocytogenes via AOAC 121804 (Gene-Up® PCR System) Analyzed 01/25/22

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

Myc.1: Mycotoxins by LC-MS Analyzed 01/27/22

| | | | | | |
|--------------|------|-------------|--------------|------|-------------|
| 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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**Calm Synergy Kava Root Capsule (400mg
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Sample ID: 2201745-001

**Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of
 Pesticides and Mycotoxins) Analyzed 01/27/22**

| | | | | | |
|-------------------------|-------|-------------|-----------------------|-------|-------------|
| Abamectin (B1a + B1b) | < 50 | µg/kg (ppb) | Acephate | < 25 | µg/kg (ppb) |
| Acequinocyl | < 20 | 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 | < 50 | 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) |
| Etozazole | < 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 | < 50 | 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 | < 50 | µg/kg (ppb) | Permethrin | < 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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Sample ID: 2201745-001

ResSolv.2: Residual Solvents by Headspace GC/MS (VF-624MS) Analyzed 01/26/22

| | | | | | |
|--------------------|-------|-----|-----------------------------|-------|-----|
| (+/-)-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 | < 50 | 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 01/25/22

Salmonella spp. Negative /25 g

STEC.1.a: Shiga toxin (stx) & Intimin (eae) genes via AOAC 091301 (BAX® PCR System, STEC Screen) Analyzed 01/25/22

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 01/25/25

Yeast and Mold < 100 CFU/g

Report ID 2201745 has been amended as follows: Picture was added to the report.

RPC 2-3-22

Reported By:

Ryan Connelly, Chemistry Laboratory Manager, 2/3/2022

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 |