

Certificate of Analysis Cover Page

Twin Arbor Analytical

3990 Ruth Way Suite D
Paso Robles, CA 93446
(805) 369-2123



PREPARED FOR:

Hempsi
815 Grand Blvd
Vancouver, WA 98661

Report Date 1/21/2022
Sample ID Sleep Gel Cap Fluid
Sample Name #12092102

Results

Analysis

| | |
|--------------|--------------|
| Cannabinoids | |
| CBG (mg/mL) | 109.4 |
| Total THC | PASS |

| | |
|---------------------------|-------------|
| Pesticides and Mycotoxins | |
| Result | PASS |

| | |
|-------------------|-------------|
| Residual Solvents | |
| Result | PASS |

| | |
|--------------|-------------|
| Heavy Metals | |
| Result | PASS |

| | |
|-----------|-------------|
| Microbial | |
| Result | PASS |

| | |
|----------------|----|
| Water Activity | |
| Result | NT |

NT = Not Tested

Forrest Richmond
Laboratory Manager

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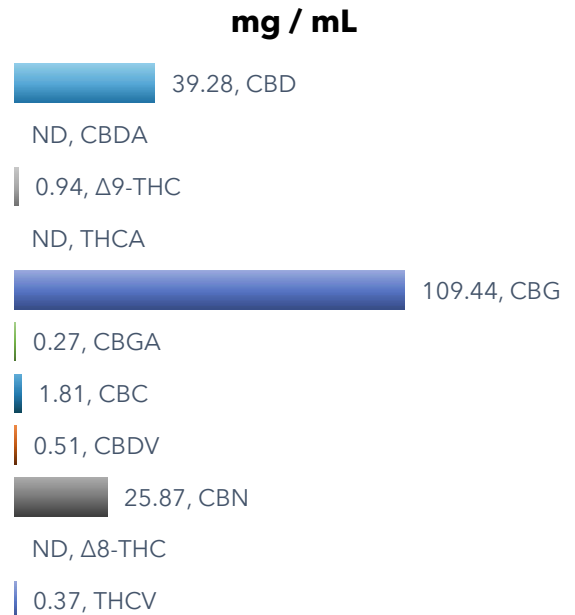
PREPARED FOR:
Hempsi
815 Grand Blvd
Vancouver, WA 98661

Report Date 1/19/2022
Sample ID Sleep Gel Cap Fluid
Sample Type #12092102
Internal Sample ID 220113-049-2
Lab Batch ID 220114-4
Date of Analysis 1/17/2022

Analysis: Cannabinoids

Instrumentation: HPLC/DAD Instrument ID: HPLC 1 Method: TM0002 (Twin Arbor Analytical Proprietary)

| | LOD / LOQ (mg/g) | mg/g | % | mg/mL |
|----------------------------------|---------------------|---------------|---------------|---------------|
| CBD | 0.07 / 0.2 | 41.05 | 4.105 | 39.28 |
| CBDA | 0.07 / 0.2 | ND | ND | ND |
| Total CBD * | | 41.05 | 4.105 | 39.28 |
| Δ9-THC | 0.07 / 0.2 | 0.98 | 0.098 | 0.94 |
| THCA | 0.07 / 0.2 | ND | ND | ND |
| Total THC * | | 0.98 | 0.098 | 0.94 |
| CBG | 0.07 / 0.2 | 114.36 | 11.436 | 109.44 |
| CBGA | 0.07 / 0.2 | 0.29 | 0.029 | 0.27 |
| Total CBG * | | 114.61 | 11.461 | 109.68 |
| CBC | 0.07 / 0.2 | 1.89 | 0.189 | 1.81 |
| CBDV | 0.07 / 0.2 | 0.54 | 0.054 | 0.51 |
| CBN | 0.07 / 0.2 | 27.04 | 2.704 | 25.87 |
| Δ8-THC | 0.07 / 0.2 | ND | ND | ND |
| THCV | 0.07 / 0.2 | 0.39 | 0.039 | 0.37 |
| Total Tested Cannabinoids | | 186.53 | 18.65 | 178.51 |



Density (g/ml): 0.957
Moisture Content: NT

ND = Not Detected

NT = Not Tested

* Totals account for decarboxylation of the acid and equal $XXX + (XXXXA * 0.877)$
For example: Total THC = Δ9-THC + (THCA * 0.877)

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TWIN ARBOR

PREPARED FOR:

Hempsi
815 Grand Blvd
Vancouver, WA 98661

Report Date

1/21/2022

Sample ID

Sleep Gel Cap Fluid

Batch / LOT

#12092102

Internal Sample ID

220113-049-2

Lab Batch ID

220119-3

Date of Analysis

1/19/2022

Analysis: Pesticides and Mycotoxins

Instrumentation: LC-Mass Spectrometer

Intrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

| Mycotoxins | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|--------------|-------------|----------------|---------------------|------------------|
| Aflatoxin B1 | Pass | ND | 0.02 | 0.000 / 0.001 |
| Aflatoxin B2 | Pass | ND | 0.02 | 0.001 / 0.004 |
| Aflatoxin G1 | Pass | ND | 0.02 | 0.000 / 0.001 |
| Aflatoxin G2 | Pass | ND | 0.02 | 0.001 / 0.004 |
| Ochratoxin A | Pass | ND | 0.02 | 0.004 / 0.013 |

| Category I | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|-------------------|-------------|----------------|---------------------|------------------|
| Aldicarb | Pass | ND | ND | 0.033 / 0.100 |
| Carbofuran | Pass | ND | ND | 0.033 / 0.100 |
| Chlordane | Pass | ND | ND | 0.100 / 0.300 |
| Chlorfenapyr | Pass | ND | ND | 0.033 / 0.100 |
| Chlorpyrifos | Pass | ND | ND | 0.033 / 0.100 |
| Coumaphos | Pass | ND | ND | 0.033 / 0.100 |
| Daminozide | Pass | ND | ND | 0.033 / 0.100 |
| DDVP (Dichlorvos) | Pass | ND | ND | 0.033 / 0.100 |
| Dimethoate | Pass | ND | ND | 0.033 / 0.100 |
| Ethoprop(hos) | Pass | ND | ND | 0.033 / 0.100 |
| Etofenprox | Pass | ND | ND | 0.033 / 0.100 |
| Fenoxycarb | Pass | ND | ND | 0.033 / 0.100 |
| Fipronil | Pass | ND | ND | 0.033 / 0.100 |
| Imazalil | Pass | ND | ND | 0.033 / 0.100 |
| Methiocarb | Pass | ND | ND | 0.033 / 0.100 |
| Methyl parathion | Pass | ND | ND | 0.033 / 0.100 |
| Mevinphos | Pass | ND | ND | 0.017 / 0.050 |
| Paclobutrazol | Pass | ND | ND | 0.033 / 0.100 |
| Propoxur | Pass | ND | ND | 0.033 / 0.100 |
| Spiroxamine | Pass | ND | ND | 0.033 / 0.100 |
| Thiacloprid | Pass | ND | ND | 0.033 / 0.100 |

Continued on page 4

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Analysis: Pesticides and Mycotoxins (continued)

Instrumentation: LC-Mass Spectrometer

Instrument ID: LCMS 1

Method: TM0004 (Twin Arbor Analytical Proprietary)

| Category II | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOD / LOQ (µg/g) |
|-------------------------|-------------|----------------|---------------------|------------------|
| Abamectin | Pass | ND | 0.30 | 0.017 / 0.050 |
| Acephate | Pass | ND | 5.00 | 0.017 / 0.050 |
| Acequinocyl | Pass | ND | 4.00 | 0.017 / 0.050 |
| Acetamiprid | Pass | ND | 5.00 | 0.017 / 0.050 |
| Azoxystrobin | Pass | ND | 40.00 | 0.017 / 0.050 |
| Bifenazate | Pass | ND | 5.00 | 0.017 / 0.050 |
| Bifenthrin | Pass | ND | 0.50 | 0.017 / 0.050 |
| Boscalid | Pass | ND | 10.00 | 0.017 / 0.050 |
| Captan | Pass | ND | 5.00 | 0.033 / 0.100 |
| Carbaryl | Pass | ND | 0.50 | 0.017 / 0.050 |
| Chlorantraniliprole | Pass | ND | 40.00 | 0.017 / 0.050 |
| Clofentezine | Pass | ND | 0.50 | 0.017 / 0.050 |
| Cyfluthrin | Pass | ND | 1.00 | 0.033 / 0.100 |
| Cypermethrin | Pass | ND | 1.00 | 0.017 / 0.050 |
| Diazinon | Pass | ND | 0.20 | 0.017 / 0.050 |
| Dimethomorph | Pass | ND | 20.00 | 0.017 / 0.050 |
| Etoxazole | Pass | ND | 1.50 | 0.017 / 0.050 |
| Fenhexamid | Pass | ND | 10.00 | 0.017 / 0.050 |
| Fenpyroximate | Pass | ND | 2.00 | 0.017 / 0.050 |
| Fonicamid | Pass | ND | 2.00 | 0.017 / 0.050 |
| Fludioxonil | Pass | ND | 30.00 | 0.017 / 0.050 |
| Hexythiazox | Pass | ND | 2.00 | 0.017 / 0.050 |
| Imidacloprid | Pass | ND | 3.00 | 0.017 / 0.050 |
| Kresoxim-methyl | Pass | ND | 1.00 | 0.017 / 0.050 |
| Malathion | Pass | ND | 5.00 | 0.017 / 0.050 |
| Metalaxyl | Pass | ND | 15.00 | 0.017 / 0.050 |
| Methomyl | Pass | ND | 0.10 | 0.017 / 0.050 |
| Myclobutanil | Pass | ND | 9.00 | 0.017 / 0.050 |
| Naled | Pass | ND | 0.50 | 0.017 / 0.050 |
| Oxamyl | Pass | ND | 0.20 | 0.017 / 0.050 |
| Pentachloronitrobenzene | Pass | ND | 0.20 | 0.017 / 0.050 |
| Permethrin | Pass | ND | 20.00 | 0.017 / 0.050 |
| Phosmet | Pass | ND | 0.20 | 0.017 / 0.050 |
| Piperonylbutoxide | Pass | ND | 8.00 | 0.017 / 0.050 |
| Prallethrin | Pass | ND | 0.40 | 0.017 / 0.050 |
| Propiconazole | Pass | ND | 20.00 | 0.017 / 0.050 |
| Pyrethrins | Pass | ND | 1.00 | 0.017 / 0.050 |
| Pyridaben | Pass | ND | 3.00 | 0.017 / 0.050 |
| Spinetoram | Pass | ND | 3.00 | 0.017 / 0.050 |
| Spinosad | Pass | ND | 3.00 | 0.017 / 0.050 |
| Spiromesifen | Pass | ND | 12.00 | 0.017 / 0.050 |
| Spirotetramat | Pass | ND | 13.00 | 0.017 / 0.050 |
| Tebuconazole | Pass | ND | 2.00 | 0.017 / 0.050 |
| Thiamethoxam | Pass | ND | 4.50 | 0.017 / 0.050 |
| Trifloxystrobin | Pass | ND | 30.00 | 0.017 / 0.050 |

LOD = Limit of Detection

LOQ = Limit of Quantification

ND = Not Detected

NT = Not Tested



Forrest Richmond
Laboratory Manager

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PREPARED FOR:

Hempsi
815 Grand Blvd
Vancouver, WA 98661

Report Date

1/21/2022

Sample ID

Sleep Gel Cap Fluid

Batch / LOT

#12092102

Internal Sample ID

220113-049-2

Lab Batch ID

220118-2

Date of Analysis

1/18/2022

Analysis: Residual Solvents

Instrumentation: GC-MS

Intrument ID: GCMS1

Method: TM0006 (Twin Arbor Analytical Proprietary)

| | Pass / Fail | Results (µg/g) | Action Limit (µg/g) | LOQ (µg/g) |
|---|-------------|----------------|---------------------|------------|
| 1,2-Dichloroethane | PASS | < LOQ | 1.0 | 0.41 |
| Benzene | PASS | < LOQ | 1.0 | 0.42 |
| Chloroform | PASS | < LOQ | 1.0 | 0.41 |
| Ethylene oxide | PASS | < LOQ | 1.0 | 0.42 |
| Methylene chloride | PASS | < LOQ | 1.0 | 0.4 |
| Trichloroethylene | PASS | < LOQ | 1.0 | 0.43 |
| Acetone | PASS | < LOQ | 5000 | 59.2 |
| Acetonitrile | PASS | < LOQ | 410 | 60.92 |
| Butane | PASS | < LOQ | 5000 | 39.64 |
| Ethanol | PASS | < LOQ | 5000 | 59.54 |
| Ethyl acetate | PASS | < LOQ | 5000 | 59.96 |
| Ethyl ether | PASS | < LOQ | 5000 | 59.1 |
| Heptane | PASS | < LOQ | 5000 | 59.24 |
| Hexane | PASS | < LOQ | 290 | 59.28 |
| Isopropyl alcohol | PASS | < LOQ | 5000 | 59.3 |
| Methanol | PASS | < LOQ | 3000 | 59.3 |
| Pentane | PASS | < LOQ | 5000 | 59.56 |
| Propane | PASS | < LOQ | 5000 | 40 |
| Toluene | PASS | < LOQ | 890 | 59.3 |
| Total xylenes (ortho-, meta-, para-) | PASS | < LOQ | 2170 | 59.2 |



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Laboratory Manager

ND = Not Detected

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Hempsi
815 Grand Blvd
Vancouver, WA 98661

Report Date

1/21/2022

Sample ID

Sleep Gel Cap Fluid

Batch / LOT

#12092102

Internal Sample ID

220113-049-2

Lab Batch ID

220121-2

Date of Analysis

1/21/2022

Analysis: Heavy Metals

Instrumentation: ICP-MS

Intrument ID: ICPMS1

Method: TM0005 (Twin Arbor Analytical Proprietary)

| | Pass / Fail | Results ($\mu\text{g/g}$) | Action Limit ($\mu\text{g/g}$) | LOQ ($\mu\text{g/g}$) |
|---------|-------------|--------------------------------|-------------------------------------|----------------------------|
| Arsenic | PASS | < LOQ | 0.2 | 0.013 |
| Cadmium | PASS | < LOQ | 0.2 | 0.013 |
| Lead | PASS | < LOQ | 0.5 | 0.013 |
| Mercury | PASS | < LOQ | 0.1 | 0.013 |

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LOQ = Limit of Quantification

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PREPARED FOR:

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Vancouver, WA 98661

Report Date 1/21/2022
Sample ID Sleep Gel Cap Fluid
Batch / LOT # #12092102
Internal Sample ID 220113-049-2
Lab Batch ID 220113-049
Date of Analysis 1/17/2022

Analysis: Microbial Impurities

Instrumentation: RT-PCR Instrument ID: BAX1 Method: AOAC-RI 091301 (modified)

| | Action Limit | Pass / Fail |
|--------------------------------|--------------|-------------|
| STEC (Shiga-toxigenic E. coli) | ND | PASS |
| Salmonella sp. | ND | PASS |
| Pathogenic Aspergillus | ND | NT |



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