

O-CO2-YP5-04021-BULK86

| | | | |
|------------------|-------------|-------------------|-----------------------|
| Batch ID: | | Test ID: | T000137227 |
| Type: | Concentrate | Submitted: | 04/23/2021 @ 04:43 PM |
| Test: | Pesticides | Started: | 4/26/2021 |
| Method: | TM17 | Reported: | 4/29/2021 |


PESTICIDE RESIDUE

| Compound | Dynamic Range (ppb) | Result (ppb) | Compound | Dynamic Range (ppb) | Result (ppb) |
|---------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Acephate | 36 - 2567 | ND* | Malathion | 280 - 2567 | ND* |
| Acetamiprid | 40 - 2567 | ND* | Metalaxyl | 50 - 2567 | ND* |
| Abamectin | >420 | ND* | Methiocarb | 37 - 2567 | ND* |
| Azoxystrobin | 58 - 2567 | ND* | Methomyl | 46 - 2567 | ND* |
| Bifenazate | 39 - 2567 | ND* | MGK 264 1 | 155 - 2567 | ND* |
| Boscalid | 67 - 2567 | ND* | MGK 264 2 | 113 - 2567 | ND* |
| Carbaryl | 40 - 2567 | ND* | Myclobutanil | 44 - 2567 | ND* |
| Carbofuran | 47 - 2567 | ND* | Naled | 58 - 2567 | ND* |
| Chlorantraniliprole | 53 - 2567 | ND* | Oxamyl | 36 - 2567 | ND* |
| Chlorpyrifos | 48 - 2567 | ND* | Paclobutrazol | 45 - 2567 | ND* |
| Clofentezine | 289 - 2567 | ND* | Permethrin | 271 - 2567 | ND* |
| Diazinon | 280 - 2567 | ND* | Phosmet | 45 - 2567 | ND* |
| Dichlorvos | >285 | ND* | Prophos | 336 - 2567 | ND* |
| Dimethoate | 38 - 2567 | ND* | Propoxur | 44 - 2567 | ND* |
| E-Fenpyroximate | 282 - 2567 | ND* | Pyridaben | 272 - 2567 | ND* |
| Etofenprox | 42 - 2567 | ND* | Spinosad A | 37 - 2567 | ND* |
| Etoxazole | 318 - 2567 | ND* | Spinosad D | 105 - 2567 | ND* |
| Fenoxycarb | >39 | ND* | Spiromesifen | >264 | ND* |
| Fipronil | 55 - 2567 | ND* | Spirotetramat | >313 | ND* |
| Flonicamid | 41 - 2567 | ND* | Spiroxamine 1 | 22 - 2567 | ND* |
| Fludioxonil | >352 | ND* | Spiroxamine 2 | 22 - 2567 | ND* |
| Hexythiazox | 38 - 2567 | ND* | Tebuconazole | 288 - 2567 | ND* |
| Imazalil | 293 - 2567 | ND* | Thiacloprid | 40 - 2567 | ND* |
| Imidacloprid | 41 - 2567 | ND* | Thiamethoxam | 41 - 2567 | ND* |
| Kresoxim-methyl | 57 - 2567 | ND* | Trifloxystrobin | 58 - 2567 | ND* |


* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL


 Tyler Wiese
 29-Apr-2021
 7:58 AM

PREPARED BY / DATE


 Tavor Brevik
 29-Apr-2021
 8:01 AM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate of Analysis

Sample: DE10319018-002
Harvest/Lot ID: O-CO2-YP5-04021-BULK86
Seed to Sale # 1A400031269FB2B000001128
Batch Date : 02/09/21
Batch#: 2021-94A
Sample Size Received: 7 gram
Total Weight/Volume: N/A
Retail Product Size: 1 gram
Ordered : 03/19/21
sampled : 03/19/21
Completed: 03/26/21 Expires: 03/26/22
Sampling Method: SOP-024

Apr 19, 2021 | Hemplucid

License # NA
4844 N. 300 W. Ste. 202
Provo, CO, 84604, US

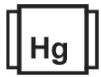

TESTED

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SAFETY RESULTS



Pesticides
TESTED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
NOT TESTED



Residuals
Solvents
PASSED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity
NOT TESTED



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



Total THC
2.563%



Total CBD
54.577%



Total Cannabinoids
60.088%

| | CBDV | CBDVA | CBG | CBD | CBDA | THCV | CBGA | CBN | EXO-THC | CBDQ | D9-THC | D8-THC | CBL | THCVA | CBC | D10-THC | CBNA | THCA | CBCA | CBLA |
|-----|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|---------|-----------|-----------|-----------|-----------|
| | 0.65% | ND | ND | 54.58% | ND | ND | ND | 0.10% | 0.59% | ND | 2.56% | ND | ND | ND | 1.61% | ND | ND | ND | ND | ND |
| | 6.46 mg/g | ND | ND | 545.77 mg/g | ND | ND | ND | 1.01 mg/g | 5.89 mg/g | ND | 25.63 mg/g | ND | ND | ND | 16.09 mg/g | ND | ND | ND | ND | ND |
| LOD | 0.00265 % | 0.00070 % | 0.00219 % | 0.00333 % | 0.00125 % | 0.00205 % | 0.00192 % | 0.00183 % | 0.00401 % | 0.01480 % | 0.00084 % | 0.00268 % | 0.00092 % | 0.00071 % | 0.00286 % | | 0.00091 % | 0.00045 % | 0.00210 % | 0.00116 % |

Cannabinoid Profile Test

| | | | |
|---------------------------------------|--|---|---------------------------------------|
| Analyzed by 1253 | Weight 0.18g | Extraction date : 03/23/21 05:03:34 | Extracted By : 667 |
| Analysis Method -SOP-020 (R15) | Reviewed On - 03/25/21 11:03:18 | | Batch Date : 03/23/21 12:21:06 |
| Analytical Batch -DE001652POT | Instrument Used : Agilent 1100 "Liger" Running On : | | |
| Reagent | Dilution | Consums. ID | Consums. ID |
| 111620.12 | 200 | 24161320 | R08B28597 |
| 021921.R14 | | 9234640 | |
| 032321.R07 | | 00302923 | |
| 032021.R05 | | 12123-046CC-046 | |
| | | 923C4-923AK | |
| | | 5079-525C6-525E | |

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Stephen Goldman
Lab Director

State License #
405R-00011 405-00008
ISO Accreditation # 4331.01



Signature

04/19/2021

Signed On



Certificate of Analysis

TESTED
Hemplucid

 4844 N. 300 W. Ste. 202
 Provo, CO, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: NA

Sample : DE10319018-002
Harvest/LOT ID: O-CO2-YP5-04021-BULK86
Batch# : 2021-94A

Sampled : 03/19/21

Ordered : 03/19/21

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/26/21 **Expires:** 03/26/22

Sample Method : SOP-024

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Terpenes

TESTED

| Terpenes | LOD(%) | mg/g | % | Result (%) | Terpenes | LOD(%) | mg/g | % | Result (%) |
|-------------------------|--------|--------|---------|------------|----------|--------|------|---|------------|
| ALPHA-PINENE | 0.002 | ND | ND | | | | | | |
| CAMPHENE | 0.002 | ND | ND | | | | | | |
| BETA-PINENE | 0.002 | ND | ND | | | | | | |
| MYRCENE | 0.002 | ND | ND | | | | | | |
| DELTA-3-CARENE | 0.002 | ND | ND | | | | | | |
| ALPHA-TERPINENE | 0.002 | ND | ND | | | | | | |
| P-CYMENTHENE | 0.002 | ND | ND | | | | | | |
| LIMONENE | 0.002 | ND | ND | | | | | | |
| EUCALYPTOL | 0.002 | ND | ND | | | | | | |
| CIS-OCIMENE | 0.002 | ND | ND | | | | | | |
| GAMMA-TERPINENE | 0.002 | ND | ND | | | | | | |
| TERPINOLENE | 0.002 | ND | ND | | | | | | |
| LINALOOL | 0.002 | < 0.2 | < 0.020 | | | | | | |
| (-)-ISOPULEGOL | 0.002 | ND | ND | | | | | | |
| BORNEOL | 0.002 | ND | ND | | | | | | |
| MENTHOL | 0.002 | ND | ND | | | | | | |
| ALPHA-TERPINEOL | 0.002 | ND | ND | | | | | | |
| PULEGONE | 0.002 | ND | ND | | | | | | |
| GERANIOL | 0.002 | ND | ND | | | | | | |
| 2-ETHYL-FENCHOL | 0.002 | ND | ND | | | | | | |
| BETA-CARYOPHYLLENE | 0.002 | 6.537 | 0.653 | | | | | | |
| HUMULENE | 0.002 | 2.613 | 0.261 | | | | | | |
| BISABOLENE | 0.002 | ND | ND | | | | | | |
| NEROLIDOL | 0.002 | ND | ND | | | | | | |
| (-)-CARYOPHYLLENE OXIDE | 0.002 | ND | ND | | | | | | |
| (-)-GUAIAOL | 0.002 | 3.261 | 0.326 | | | | | | |
| (-)-ALPHA-BISABOLOL | 0.002 | 11.476 | 1.147 | | | | | | |
| Total (%) | | 2.388 | | | | | | | |



Terpenes

TESTED

| | | | |
|--------------------|---------------|------------------------|---------------------|
| Analyzed by | Weight | Extraction date | Extracted By |
| 7 | 0.18g | 03/24/21 07:03:49 | 7 |

Analysis Method -SOP-067 (R0)
Analytical Batch -DE001653TER
Instrument Used : GC 6890
Running On : 03/24/21 07:45:51
Batch Date : 03/23/21 12:36:29
Reviewed On - 03/25/21 09:06:47

| Reagent | Dilution | Consums. ID |
|------------|----------|---|
| 032321.R08 | 40 | 24161320 HWK-TP3ML 00302923 12123-046CC-046 280674667 |

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.



Certificate of Analysis

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License #: NA

Sample : DE10319018-002
Harvest/LOT ID: O-CO2-YP5-04021-BULK86
Batch# : 2021-94A

Sampled : 03/19/21

Ordered : 03/19/21

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/26/21 **Expires:** 03/26/22

Sample Method : SOP-024


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Pesticides

TESTED

| Pesticides | LOD | Units | Action Level | Result |
|------------------|---------|-------|--------------|--------|
| OTHER PESTICIDES | 0.1 | ppb | 100 | ND |
| AVERMECTINS | 0.0271 | ppb | 70 | ND |
| AZOXYSTROBIN | 0.0149 | ppb | 20 | ND |
| BIFENAZATE | 0.0118 | ppb | 20 | ND |
| ETOXAZOLE | 0.00645 | ppb | 10 | ND |
| IMAZALIL | 0.0646 | ppb | 40 | ND |
| IMIDACLOPRID | 0.00748 | ppb | 20 | ND |
| MALATHION | 0.01108 | ppb | 50 | ND |
| MYCLOBUTANIL | 0.0135 | ppb | 40 | ND |
| PERMETHRINS | 0.0131 | ppb | 40 | ND |
| SPINOSADS | 0.0134 | ppb | 60 | ND |
| SPIROMESIFEN | 0.0499 | ppb | 30 | ND |
| SPIROTETRAMAT | 0.0301 | ppb | 20 | 32.447 |
| TEBUCONAZOLE | 0.0103 | ppb | 10 | ND |

| Pesticides | LOD | Units | Action Level | Result |
|---|-------------------|-----------------------|--------------------|--------|
| <div></div> <div>Pesticides</div> | | | | TESTED |
| Analyzed by 7 | Weight 0.1526g | Extraction date NA | Extracted By NA | |
| Analysis Method - SOP-060 (R5) , Analytical Batch - DE001648PES Instrument Used : Sciex 6500 Qtrap - Pesticides Running On : | | | | |
| Batch Date : 03/23/21 07:07:29 | | | | |
| Reagent | Dilution | Consums. ID | | |
| 030921.R005 | 25 | 24161320 | | |
| 031821.R009 | | 9234640 | | |
| 030921.R009 | | 00302923 | | |
| 032421.R006 | | 280674667 | | |
| 030421.R115 | | 213685 | | |
| Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). * | | | | |



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Provo, CO, 84604, US
Telephone: 7192318261
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License #: NA

Sample : DE10319018-002
Harvest/LOT ID: O-CO2-YP5-04021-BULK86
Batch# : 2021-94A

Sampled : 03/19/21

Ordered : 03/19/21

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/26/21 **Expires:** 03/26/22

Sample Method : SOP-024

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| | | |
|--|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|--|--------------------------|---------------|

| Solvent | LOD | Units | Action Level (PPM) | Pass/Fail | Result |
|---------------|---------|-------|--------------------|-----------|--------|
| PROPANE | 4.21421 | ppm | 1000 | PASS | ND |
| BUTANES | 15.794 | ppm | 1000 | PASS | ND |
| METHANOL | 1.27868 | ppm | 600 | PASS | 6.227 |
| PENTANES | 13.828 | ppm | 1000 | PASS | ND |
| ETHANOL | 2.70106 | ppm | 10000 | PASS | 38.621 |
| ACETONE | 1.708 | ppm | 1000 | PASS | 9.722 |
| 2-PROPANOL | 1.58756 | ppm | 1000 | PASS | 36.887 |
| HEXANES | 1.92798 | ppm | 60 | PASS | ND |
| ETHYL ACETATE | 2.79218 | ppm | 1000 | PASS | ND |
| BENZENE | 0.47491 | ppm | 2 | PASS | ND |
| HEPTANE | 3.25945 | ppm | 1000 | PASS | ND |
| TOLUENE | 2.10881 | ppm | 180 | PASS | ND |
| XYLENES | 7.115 | ppm | 430 | PASS | ND |

| | | |
|---|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|---|--------------------------|---------------|

| | | | |
|---------------------------|------------------------|---|--------------------------|
| Analyzed by 666 | Weight 0.14g | Extraction date 03/20/21 11:03:59 | Extracted By 7 |
|---------------------------|------------------------|---|--------------------------|

Analysis Method -SOP-032 (R18)
Analytical Batch -DE001642SOL
Reviewed On - 03/22/21 13:41:42
Instrument Used : GC 5890
Running On :
Batch Date : 03/20/21 08:58:46

| Reagent | Dilution | Consums. ID |
|------------|----------|---|
| 031821.R05 | 1 | 24160453 31726-2-1 5079-525C6-525E HWK-TP3ML |

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



Certificate of Analysis

TESTED
Hemplucid

 4844 N. 300 W. Ste. 202
 Provo, CO, 84604, US
Telephone: 7192318261
Email: sarah@hemplucid.com
License #: NA

Sample : DE10319018-002
Harvest/LOT ID: O-CO2-YP5-04021-BULK86
Batch# : 2021-94A

Sampled : 03/19/21

Ordered : 03/19/21

Sample Size Received : 7 gram

Total Weight/Volume : N/A

Completed : 03/26/21 **Expires:** 03/26/22

Sample Method : SOP-024

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| | | |
|--|-------------------|---------------|
|  | Microbials | PASSED |
|--|-------------------|---------------|

| Analyte | LOD | Result |
|---|-----|--------|
| SALMONELLA SPECIES | | 0 |
| SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC | | 0 |
| TOTAL_YEAST_AND_MOLD | | 0 |

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE001645MIC Batch Date : 03/22/21
Instrument Used : Microbial - Full Panel
Running On : 03/23/21

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|--------|-----------------|--------------|
| 5 | 0.91g | 03/23/21 | 5 |

| Reagent | Reagent | Reagent | Reagent | Consums. ID | Consums. ID |
|------------|------------|------------|------------|-------------------|-------------|
| 021221.03 | 022221.08 | 022321.R13 | 020821.01 | 40898-021C4-021AI | NT10-1212 |
| 022321.02 | 030421.R12 | 031821.R11 | 032521.R07 | MKCN2192 | 040C7-0142 |
| 030421.R11 | 031821.R14 | 030521.R07 | 030121.04 | 12123-046CC-046 | 00100 |
| 021021.R12 | 032221.R06 | 121720.01 | 030121.05 | 0 | 00019 |
| 021021.R13 | 031621.R06 | 081220.03 | 031621.01 | 06520022 | CH_2048055 |
| 022221.07 | 032421.R05 | 100419.03 | 1 | 61464-041C6-041H | |

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

| | | |
|---|---------------------|---------------|
|  | Heavy Metals | PASSED |
|---|---------------------|---------------|

| Reagent | Dilution | Consums. ID |
|------------|----------|-----------------|
| 111020.01 | 50 | 018C4-018D |
| 032321.R03 | | 040CB-040D |
| 032321.R02 | | 12123-046CC-046 |
| 011521.01 | | 923C4-923AK |
| 031221.R08 | | |
| 032221.01 | | |

| Metal | LOD | Unit | Result | Action Level (PPM) |
|---------|--------|------|--------|--------------------|
| ARSENIC | 0.0020 | ppm | ND | 0.2 |
| CADMIUM | 0.0016 | ppm | ND | 0.2 |
| MERCURY | 0.0035 | ppm | ND | 0.1 |
| LEAD | 0.0101 | ppm | ND | 0.5 |

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|--------|-------------------|--------------|
| 7 | 0.219g | 03/23/21 02:03:06 | 666 |

Analysis Method -SOP-050 (R5)
Analytical Batch -DE001649HEA | Reviewed On - 03/24/21 08:39:05
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 03/24/21 07:53:50
Batch Date : 03/23/21 08:21:39

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).