

HHC Distillate

 Sample ID: SA-11012021-5192
 Batch:
 Type: In-Process Materials
 Matrix: Concentrate - Distillate

 Received: 11/01/2021
 Completed: 11/15/2021

Client
 CleanAF Operations
 PO Box 15598
 Las Vegas, NV 89114
 USA
 Lic. #: G68-04351

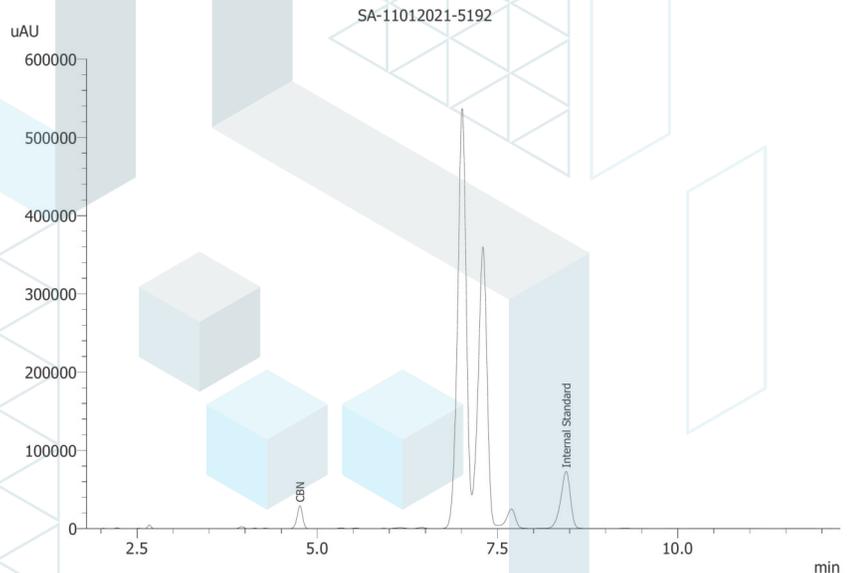

Summary

| Test | Date Tested | Status |
|---------------------------|-------------|--------|
| Cannabinoids | 11/11/2021 | Tested |
| Cannabinoids (Additional) | 11/11/2021 | Tested |
| Heavy Metals | 11/03/2021 | Tested |
| Microbials | 11/10/2021 | Tested |
| Mycotoxins | 11/15/2021 | Tested |
| Pesticides | 11/15/2021 | Tested |
| Residual Solvents | 11/15/2021 | Tested |
| Terpenes | 11/15/2021 | Tested |

Cannabinoids by HPLC-PDA

| | | | | | |
|--------------|----------------|--------------------|-------------------|-------------------|---------------------------|
| ND | 0.911 % | 0.911 % | Not Tested | Not Tested | Yes |
| Total Δ9-THC | CBN | Total Cannabinoids | Moisture Content | Foreign Matter | Internal Marker Recovered |

| Analyte | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) |
|---------------------|---------|---------|--------------|---------------|
| CBC | 0.0095 | 0.0284 | ND | ND |
| CBCA | 0.0181 | 0.0543 | ND | ND |
| CBCV | 0.006 | 0.018 | ND | ND |
| CBD | 0.0081 | 0.0242 | ND | ND |
| CBDA | 0.0043 | 0.013 | ND | ND |
| CBDV | 0.0061 | 0.0182 | ND | ND |
| CBDVA | 0.0021 | 0.0063 | ND | ND |
| CBG | 0.0057 | 0.0172 | ND | ND |
| CBGA | 0.0049 | 0.0147 | ND | ND |
| CBL | 0.0112 | 0.0335 | ND | ND |
| CBLA | 0.0124 | 0.0371 | ND | ND |
| CBN | 0.0056 | 0.0169 | 0.911 | 9.11 |
| CBNA | 0.006 | 0.0181 | ND | ND |
| Δ8-THC | 0.0104 | 0.0312 | ND | ND |
| Δ9-THC | 0.0076 | 0.0227 | ND | ND |
| Δ9-THCA | 0.0084 | 0.0251 | ND | ND |
| Δ9-THCV | 0.0069 | 0.0206 | ND | ND |
| Δ9-THCVA | 0.0062 | 0.0186 | ND | ND |
| Total Δ9-THC | | | ND | ND |
| Total CBD | | | ND | ND |
| Total | | | 0.911 | 9.11 |



ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



11/15/2021


 ISO/IEC 17025:2017 Accredited
 Accreditation #108651


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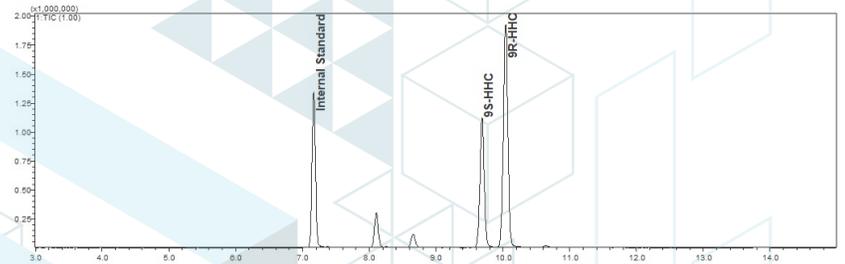
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Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

| Analyte | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) |
|----------|---------|---------|------------|---------------|
| (9R)-HHC | | | 59.3 | 593.0 |
| (9S)-HHC | | | 40.4 | 404.0 |



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Heavy Metals by ICP-MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|---------|-----------|-----------|--------------|
| Arsenic | 2 | 20 | ND |
| Cadmium | 1 | 20 | ND |
| Lead | 2 | 20 | ND |
| Mercury | 12 | 50 | ND |

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Pesticides by LC-MS/MS and GC-MS/MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|----------------------|-----------|-----------|--------------|--------------------|-----------|-----------|--------------|
| Abamectin | 30 | 100 | ND | Hexythiazox | 30 | 100 | ND |
| Acephate | 30 | 100 | ND | Imazalil | 30 | 100 | ND |
| Acequinocyl | 30 | 100 | ND | Imidacloprid | 30 | 100 | ND |
| Acetamiprid | 30 | 100 | ND | Kresoxim methyl | 30 | 100 | ND |
| Aldicarb | 30 | 100 | ND | Malathion | 30 | 100 | ND |
| Azoxystrobin | 30 | 100 | ND | Metalaxyl | 30 | 100 | ND |
| Bifenazate | 30 | 100 | ND | Methiocarb | 30 | 100 | ND |
| Bifenthrin | 30 | 100 | ND | Methomyl | 30 | 100 | ND |
| Boscalid | 30 | 100 | ND | Mevinphos | 30 | 100 | ND |
| Carbaryl | 30 | 100 | ND | Myclobutanil | 30 | 100 | ND |
| Carbofuran | 30 | 100 | ND | Naled | 30 | 100 | ND |
| Chloranthraniliprole | 30 | 100 | ND | Oxamyl | 30 | 100 | ND |
| Chlorfenapyr | 30 | 100 | ND | Paclbutrazol | 30 | 100 | ND |
| Chlorpyrifos | 30 | 100 | ND | Permethrin | 30 | 100 | ND |
| Clofentezine | 30 | 100 | ND | Phosmet | 30 | 100 | ND |
| Coumaphos | 30 | 100 | ND | Piperonyl Butoxide | 30 | 100 | ND |
| Cypermethrin | 30 | 100 | ND | Prallethrin | 30 | 100 | ND |
| Daminozide | 30 | 100 | ND | Propiconazole | 30 | 100 | ND |
| Diazinon | 30 | 100 | ND | Propoxur | 30 | 100 | ND |
| Dichlorvos | 30 | 100 | ND | Pyrethrins | 30 | 100 | ND |
| Dimethoate | 30 | 100 | ND | Pyridaben | 30 | 100 | ND |
| Dimethomorph | 30 | 100 | ND | Spinetoram | 30 | 100 | ND |
| Ethoprophos | 30 | 100 | ND | Spinosad | 30 | 100 | ND |
| Etofenprox | 30 | 100 | ND | Spiromesifen | 30 | 100 | ND |
| Etoxazole | 30 | 100 | ND | Spirotetramat | 30 | 100 | ND |
| Fenhexamid | 30 | 100 | ND | Spiroxamine | 30 | 100 | ND |
| Fenoxycarb | 30 | 100 | ND | Tebuconazole | 30 | 100 | ND |
| Fenpyroximate | 30 | 100 | ND | Thiacloprid | 30 | 100 | ND |
| Flonicamid | 30 | 100 | ND | Thiamethoxam | 30 | 100 | ND |
| | | | | Trifloxystrobin | 30 | 100 | ND |

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Microbials by qPCR and/or Plating

| Analyte | LOD (CFU/g) | Result (CFU/g) | Result (Qualitative) |
|--------------------------|-------------|----------------|-------------------------|
| Coliforms | 1 | ND | |
| Aerobic Bacteria | 1 | ND | |
| Salmonella | | | Not Detected per 1 gram |
| Total Enterobacteriaceae | | | Not Detected per 1 gram |

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Mycotoxins by LC-MS/MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|---------|-----------|-----------|--------------|
| B1 | 1 | 5 | ND |
| B2 | 1 | 5 | ND |
| G1 | 1 | 5 | ND |
| G2 | 1 | 5 | ND |

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Residual Solvents by HS-GC-MS/MS

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|-----------------------|-----------|-----------|--------------|--------------------------|-----------|-----------|--------------|
| Acetone | 167 | 500 | ND | Ethylene Oxide | 0.5 | 1 | ND |
| Acetonitrile | 14 | 41 | ND | Heptane | 167 | 500 | ND |
| Benzene | 0.5 | 1 | ND | n-Hexane | 10 | 29 | ND |
| Butane | 167 | 500 | ND | Isobutane | 167 | 500 | ND |
| 1-Butanol | 167 | 500 | ND | Isopropyl Acetate | 167 | 500 | ND |
| 2-Butanol | 167 | 500 | ND | Isopropyl Alcohol | 167 | 500 | ND |
| 2-Butanone | 167 | 500 | ND | Isopropylbenzene | 167 | 500 | ND |
| Chloroform | 2 | 6 | ND | Methanol | 100 | 300 | ND |
| Cyclohexane | 130 | 388 | ND | 2-Methylbutane | 167 | 500 | ND |
| 1,2-Dichloroethane | 0.5 | 1 | ND | Methylene Chloride | 20 | 60 | ND |
| 1,2-Dimethoxyethane | 4 | 10 | ND | 2-Methylpentane | 10 | 29 | ND |
| Dimethyl Sulfoxide | 167 | 500 | ND | 3-Methylpentane | 10 | 29 | ND |
| N,N-Dimethylacetamide | 37 | 109 | ND | n-Pentane | 167 | 500 | ND |
| 2,2-Dimethylbutane | 10 | 29 | ND | 1-Pentanol | 167 | 500 | ND |
| N,N-Dimethylformamide | 30 | 88 | ND | n-Propane | 167 | 500 | ND |
| 2,2-Dimethylpropane | 167 | 500 | ND | 1-Propanol | 167 | 500 | ND |
| 1,4-Dioxane | 13 | 38 | ND | Pyridine | 7 | 20 | ND |
| Ethanol | 167 | 500 | ND | Tetrahydrofuran | 24 | 72 | ND |
| 2-Ethoxyethanol | 6 | 16 | ND | Toluene | 30 | 89 | ND |
| Ethyl Acetate | 167 | 500 | ND | Trichloroethylene | 3 | 8 | ND |
| Ethyl Ether | 167 | 500 | ND | Tetramethylene Sulfone | 6 | 16 | ND |
| Ethylbenzene | 3 | 7 | ND | Xylenes (o-, m-, and p-) | 73 | 217 | ND |
| Ethylene Glycol | 21 | 62 | ND | | | | |

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Terpenes by HS-GC-MS/MS

| Analyte | LOD (%) | LOQ (%) | Result (%) | Analyte | LOD (%) | LOQ (%) | Result (%) |
|---------------------|---------|---------|------------|---------------------------|---------|---------|----------------|
| α-Bisabolol | 0.00001 | 0.00005 | ND | Limonene | 0.00001 | 0.00001 | <LOQ |
| (+)-Borneol | 0.00001 | 0.00005 | ND | Linalool | 0.00001 | 0.00001 | ND |
| Camphene | 0.00001 | 0.00005 | ND | β-myrcene | 0.00001 | 0.00001 | ND |
| Camphor | 0.00001 | 0.00005 | ND | Nerol | 0.00001 | 0.00001 | ND |
| 3-Carene | 0.00001 | 0.00005 | ND | cis-Nerolidol | 0.00001 | 0.00001 | ND |
| β-Caryophyllene | 0.00001 | 0.00005 | ND | trans-Nerolidol | 0.00001 | 0.00001 | ND |
| Caryophyllene Oxide | 0.00001 | 0.00005 | ND | Ocimene | 0.00001 | 0.00001 | ND |
| α-Cedrene | 0.00001 | 0.00005 | ND | α-Phellandrene | 0.00001 | 0.00001 | ND |
| Cedrol | 0.00001 | 0.00005 | ND | α-Pinene | 0.00001 | 0.00001 | ND |
| Eucalyptol | 0.00001 | 0.00005 | ND | β-Pinene | 0.00001 | 0.00001 | ND |
| Fenchone | 0.00001 | 0.00005 | ND | Pulegone | 0.00001 | 0.00001 | ND |
| Fenchyl Alcohol | 0.00001 | 0.00005 | ND | Sabinene | 0.00001 | 0.00001 | ND |
| Geraniol | 0.00001 | 0.00005 | ND | Sabinene Hydrate | 0.00001 | 0.00001 | ND |
| Geranyl Acetate | 0.00001 | 0.00005 | ND | α-Terpinene | 0.00001 | 0.00001 | ND |
| Guaiol | 0.00001 | 0.00005 | ND | γ-Terpinene | 0.00001 | 0.00001 | ND |
| Hexahydrothymol | 0.00001 | 0.00005 | ND | α-Terpineol | 0.00001 | 0.00001 | ND |
| α-Humulene | 0.00001 | 0.00005 | ND | γ-Terpineol | 0.00001 | 0.00001 | ND |
| Isoborneol | 0.00001 | 0.00005 | ND | Terpinolene | 0.00001 | 0.00001 | ND |
| Isopulegol | 0.00001 | 0.00005 | ND | Total Terpenes (%) | | | 2.6e-05 |

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Reporting Limit Appendix

Heavy Metals -

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|---------|-------------|---------|-------------|
| Arsenic | 200 | Lead | 500 |
| Cadmium | 200 | Mercury | 100 |

Microbials -

| Analyte | Limit (CFU/g) | Analyte | Limit (CFU/g) |
|-----------|---------------|------------------|---------------|
| Coliforms | 1 | Aerobic Bacteria | 1000 |

Residual Solvents - USP 467

| Analyte | Limit (ppm) | Analyte | Limit (ppm) |
|-----------------------|-------------|--------------------------|-------------|
| Acetone | 5000 | Ethylene Oxide | 1 |
| Acetonitrile | 410 | Heptane | 5000 |
| Benzene | 2 | n-Hexane | 290 |
| Butane | 5000 | Isobutane | 5000 |
| 1-Butanol | 5000 | Isopropyl Acetate | 5000 |
| 2-Butanol | 5000 | Isopropyl Alcohol | 5000 |
| 2-Butanone | 5000 | Isopropylbenzene | 5000 |
| Chloroform | 60 | Methanol | 3000 |
| Cyclohexane | 3880 | 2-Methylbutane | 5000 |
| 1,2-Dichloroethane | 5 | Methylene Chloride | 600 |
| 1,2-Dimethoxyethane | 100 | 2-Methylpentane | 290 |
| Dimethyl Sulfoxide | 5000 | 3-Methylpentane | 290 |
| N,N-Dimethylacetamide | 1090 | n-Pentane | 5000 |
| 2,2-Dimethylbutane | 290 | 1-Pentanol | 5000 |
| N,N-Dimethylformamide | 880 | n-Propane | 5000 |
| 2,2-Dimethylpropane | 5000 | 1-Propanol | 5000 |
| 1,4-Dioxane | 380 | Pyridine | 200 |
| Ethanol | 5000 | Tetrahydrofuran | 720 |
| 2-Ethoxyethanol | 160 | Toluene | 890 |
| Ethyl Acetate | 5000 | Trichloroethylene | 80 |
| Ethyl Ether | 5000 | Tetramethylene Sulfone | 160 |
| Ethylbenzene | 70 | Xylenes (o-, m-, and p-) | 2170 |
| Ethylene Glycol | 620 | | |

Pesticides - CA BCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|----------------------|-------------|--------------------|-------------|
| Acetamiprid | 5000 | Kresoxim methyl | 1000 |
| Aldicarb | 30 | Malathion | 5000 |
| Azoxystrobin | 40000 | Metalaxyl | 15000 |
| Bifenazate | 5000 | Methiocarb | 30 |
| Bifenthrin | 500 | Methomyl | 100 |
| Boscalid | 10000 | Mevinphos | 30 |
| Carbaryl | 500 | Myclobutanil | 9000 |
| Carbofuran | 30 | Naled | 500 |
| Chloranthraniliprole | 40000 | Oxamyl | 200 |
| Chlorfenapyr | 30 | Paclobotrazol | 30 |
| Chlorpyrifos | 30 | Permethrin | 20000 |
| Clofentezine | 500 | Phosmet | 200 |
| Coumaphos | 30 | Piperonyl Butoxide | 8000 |
| Cypermethrin | 1000 | Prallethrin | 400 |
| Diazinon | 30 | Propiconazole | 20000 |
| Dichlorvos | 200 | Propoxur | 30 |
| Dimethoate | 30 | Pyrethrins | 1000 |
| Dimethomorph | 20000 | Pyridaben | 3000 |
| Ethoprophos | 30 | Spinetoram | 3000 |
| Etofenprox | 30 | Spinosad | 3000 |
| Etoxazole | 1500 | Spiromesifen | 12000 |
| Fenhexamid | 10000 | Spirotetramat | 13000 |
| Fenoxycarb | 30 | Spiroxamine | 30 |
| Fenpyroximate | 2000 | Tebuconazole | 2000 |
| Fonicamid | 2000 | Thiacloprid | 30 |
| | | Thiamethoxam | 4500 |

Mycotoxins -

| Analyte | Limit (ppm) | Analyte | Limit (ppm) |
|---------|-------------|---------|-------------|
| B1 | 20 | B2 | 20 |
| G1 | 20 | G2 | 20 |

Pesticides - CA BCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|--------------|-------------|--------------|-------------|
| Abamectin | 300 | Hexythiazox | 2000 |
| Acephate | 5000 | Imazalil | 30 |
| Acequinoclor | 4000 | Imidacloprid | 3000 |

