

Sativa Testing Laboratories LLC 10501 Trade Court

N. Chesterfield, VA 23236 Phone: 804-220-1122

Certificate of Analysis



Client Name: River Organics Sample ID: SAM-2023-3391 Sample Name: Ginger Honey Sample Matrix: Oil Sample Type: Edible (oil, tincture) Sample Received: 06/28/2023 Client Batch ID: GH62623

Cannabinoids

| Sample ID: SAM-2023-339 Instrument: HPLC-UV/Vis | 1 | Date Completed: 07/03/2023 Method: HP001/HP003 | Analyst: H E Unit Size: 1 | 5 bottle, 15 mL |
|--|---------|---|---|---------------------|
| Cannabinoid | LOQ (%) | Result (%) | Result (mg/mL) | Result (mg/unit) |
| CBC | 0.100 | 0.22 | 2.12 | 31.7 |
| CBCA | 0.100 | 0.12 | 1.12 | 16.8 |
| CBD | 0.100 | 5.37 | 50.70 | 760.5 |
| CBDA | 0.100 | 0.26 | 2.50 | 37.4 |
| CBDV | 0.100 | 0.10 | 0.98 | 14.6 |
| CBDVA | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| CBG | 0.100 | 0.17 | 1.63 | 24.4 |
| CBGA | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| CBN | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| Δ8-THC | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| Δ9-THC | 0.100 | 0.15 | 1.43 | 21.4 |
| THCA | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| THCV | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| THCVA | 0.100 | <loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<> | <loq< td=""><td><loq< td=""></loq<></td></loq<> | <loq< td=""></loq<> |
| Total THC | - | 0.15 | 1.43 | 21.4 |
| Total CBD | - | 5.60 | 52.89 | 793.3 |
| Total Cannabinoids | - | 6.40 | 60.46 | 906.9 |

LOQ= Limit of quantitation, NR = Not reported

Total THC = THCa * 0.877 + d9-THC, Total CBD = CBDa * 0.877 + CBD, Measurement Uncertainty for Total THC at 0.3% is ± 0.04%

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Certificate of Analysis



Terpenes

| Sample ID: SAM-2023-3391 Instrument: HS-GC/MS | Date Completed: 07/06/202 Method: HP002 | 23 Analyst: D N | |
|--|--|----------------------------------|------------|
| Terpene | Result (mg/g) | Result (%) | LOQ (mg/g) |
| α-Pinene | 0.27 | 0.03 | 0.20 |
| Camphene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| β-Myrcene | 0.47 | 0.05 | 0.20 |
| β-Pinene | 0.27 | 0.03 | 0.20 |
| 3-Carene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| α-Terpinene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| δ-Limonene | 0.91 | 0.09 | 0.20 |
| Eucalyptol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| y-Terpinene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Terpinolene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Linalool | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Fenchone | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Isopulegol | 0.31 | 0.03 | 0.20 |
| Borneol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Terpineol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Geraniol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| β-Caryophyllene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| α-Humulene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Valencene | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| cis-Nerolidol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| trans-Nerolidol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| Guaiol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |
| α-Bisabolol | <loq< td=""><td><loq< td=""><td>0.20</td></loq<></td></loq<> | <loq< td=""><td>0.20</td></loq<> | 0.20 |

LOQ= Limit of quantitation, NR = Not reported

Residual Solvents

| Sample ID: SAM-2023-3391 Instrument: HS-GC/MS | Date Completed: 07/06/2023 Method: HP002 | Analyst: D N |
|--|---|--------------|
| Residual Solvent | Result (ppm) | LOQ (ppm) |
| Methanol | <loq< td=""><td>10</td></loq<> | 10 |
| n-Pentane | <loq< td=""><td>10</td></loq<> | 10 |
| Ethanol | 264 | 10 |
| Acetone | <loq< td=""><td>10</td></loq<> | 10 |
| Isopropanol | <loq< td=""><td></td></loq<> | |
| Acetonitrile | <loq< td=""><td></td></loq<> | |
| n-Hexane | <loq< td=""><td>10</td></loq<> | 10 |
| Tetrahydrofuran | <loq< td=""><td>10</td></loq<> | 10 |
| Chloroform | <loq< td=""><td>10</td></loq<> | 10 |
| Carbon-Tetrachloride | <loq< td=""><td>10</td></loq<> | 10 |
| Benzene | <loq< td=""><td>10</td></loq<> | 10 |
| Heptane | <loq< td=""><td>10</td></loq<> | 10 |
| Toluene | <loq< td=""><td>10</td></loq<> | 10 |
| p+m Xylene | <loq< td=""><td>10</td></loq<> | 10 |
| o-Xylene | <loq< td=""><td>10</td></loq<> | 10 |

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Heavy Metals

| Sample ID: SAM-2023-3391 Instrument: ICP-MS | Date Completed: 07/05/2023 Method: HP008 | Analyst: D N |
|--|---|--------------|
| Heavy Metals | Result (ppm) | LOQ (ppm) |
| Arsenic | <loq< td=""><td>0.500</td></loq<> | 0.500 |
| Cadmium | <loq< td=""><td>0.500</td></loq<> | 0.500 |
| Lead | <loq< td=""><td>1.250</td></loq<> | 1.250 |
| Mercury | <loq< td=""><td>0.250</td></loq<> | 0.250 |

LOQ= Limit of quantitation, NR = Not reported

| Microbial Impurities | | |
|--|--|---|
| Sample ID: SAM-2023-3391 Instrument: Culture and qPCR Date TAMC Read: 07/05/2023 | Date Completed: 07/05/2023 Method: HP100/101 Date TYMC: 07/05/2023 | Analyst: C M Sample Amount: 1.01 g Date qPCR Read: 06/30/2023 |
| Microbials | Result (CFU/g) | Analytical Sensitivity (CFU/g) |
| Aerobic Microbials (TAMC) | ND | 10 |
| Yeast & Mold (TYMC) | ND | 10 |
| E.coli | ND | - |

LOQ= Limit of quantitation, NR = Not reported, ND = Not detected TNTC = Too numerous to count, CFU = Colony forming units

Mycotoxins

| Sample ID: SAM-2023-3391 Instrument: LC-MS/MS | Date Completed: Method: HP001/HP004 | Analyst: J D |
|--|--|--------------|
| Mycotoxins | Result (ppb) | LOQ (ppb) |
| Aflatoxin B1 | <loq< td=""><td>20.0</td></loq<> | 20.0 |
| Aflatoxin B2 | <loq< td=""><td>20.0</td></loq<> | 20.0 |
| Aflatoxin G1 | <loq< td=""><td>20.0</td></loq<> | 20.0 |
| Aflatoxin G2 | <loq< td=""><td>20.0</td></loq<> | 20.0 |

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Pesticides

| Sample ID: SAM-2023-3391 Instrument: LC-MS/MS | Date Completed: 07/06/2023 Method: HP001/HP004 | Analyst: J D |
|--|---|--------------|
| Pesticide | Result (ppb) | LOQ (ppb) |
| Daminozide | <loq< td=""><td>100</td></loq<> | 100 |
| Acephate | <loq< td=""><td>100</td></loq<> | 100 |
| Oxamyl | <loq< td=""><td>100</td></loq<> | 100 |
| Methomyl | <loq< td=""><td>100</td></loq<> | 100 |
| Thiamethoxam | <loq< td=""><td>100</td></loq<> | 100 |
| Imidacloprid | <loq< td=""><td>100</td></loq<> | 100 |
| Dimethoate | <loq< td=""><td>100</td></loq<> | 100 |
| Acetamiprid | <loq< td=""><td>100</td></loq<> | 100 |
| Thiacloprid | <loq< td=""><td>100</td></loq<> | 100 |
| Aldicarb | <loq< td=""><td>100</td></loq<> | 100 |
| Dichlorvos | <loq< td=""><td>100</td></loq<> | 100 |
| Carbofuran | <loq< td=""><td>100</td></loq<> | 100 |
| Metalaxyl | <loq< td=""><td>100</td></loq<> | 100 |
| Chlorantraniliprole | <loq< td=""><td>100</td></loq<> | 100 |
| Methiocarb | <loq< td=""><td>100</td></loq<> | 100 |
| Azoxystrobin | <loq< td=""><td>100</td></loq<> | 100 |
| Spiroxamine | <loq< td=""><td>100</td></loq<> | 100 |
| Malathion | <loq< td=""><td>100</td></loq<> | 100 |
| Mycobutanil | <loq< td=""><td>100</td></loq<> | 100 |
| Bifenazate | <loq< td=""><td>100</td></loq<> | 100 |
| Ethoprophos | <loq< td=""><td>100</td></loq<> | 100 |
| Fenoxycarb | <loq< td=""><td>100</td></loq<> | 100 |
| Tebuconazole | <loq< td=""><td>100</td></loq<> | 100 |
| Diazinon | <loq< td=""><td>100</td></loq<> | 100 |
| Spinosyn A | <loq< td=""><td>100</td></loq<> | 100 |
| Trifloxystrobin | <loq< td=""><td>100</td></loq<> | 100 |
| Spinosyn D | <loq< td=""><td>100</td></loq<> | 100 |
| Piperonyl Butoxide | <loq< td=""><td>100</td></loq<> | 100 |
| Hexythiazox | <loq< td=""><td>100</td></loq<> | 100 |
| Etoxazole | <loq< td=""><td>100</td></loq<> | 100 |
| Pyrethrin 1 | <loq< td=""><td>100</td></loq<> | 100 |
| Cypermethrin | <loq< td=""><td>100</td></loq<> | 100 |
| Fenpyroximate | <loq< td=""><td>100</td></loq<> | 100 |
| Pyridaben | <loq< td=""><td>100</td></loq<> | 100 |
| Abamectin | <loq< td=""><td>100</td></loq<> | 100 |
| Perethrins | <loq< td=""><td>100</td></loq<> | 100 |
| Etofenprox | <loq< td=""><td>100</td></loq<> | 100 |
| Bifenthrin | <loq< td=""><td>100</td></loq<> | 100 |

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07/06/2023

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