

## HHC Vape Cartridge - Snowman - 1 ml

Sample ID: SA-230412-20315  
 Batch: 10APR2023-HHCSM  
 Type: Finished Products  
 Matrix: Concentrate - Distillate  
 Unit Mass (g):

Collected: 04/10/2023  
 Received: 04/19/2023  
 Completed: 05/08/2023

**Client**  
 3Chi  
 275 Medical Dr #857  
 Carmel, IN 46082  
 USA  
 Lic. #: 18\_0235



### Summary

| Test              | Date Tested | Status |
|-------------------|-------------|--------|
| Cannabinoids      | 04/27/2023  | Tested |
| Heavy Metals      | 04/20/2023  | Tested |
| Microbials        | 04/25/2023  | Tested |
| Mycotoxins        | 04/24/2023  | Tested |
| Pesticides        | 04/24/2023  | Tested |
| Residual Solvents | 05/08/2023  | Tested |
| Terpenes          | 05/01/2023  | Tested |

|                                |                                    |                                     |                                       |                                     |   |
|--------------------------------|------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---|
| <b>0.122 %</b><br>Total Δ9-THC | <b>56.0 %</b><br>(6aR,9S,10aR)-HHC | <b>94.8 %</b><br>Total Cannabinoids | <b>Not Tested</b><br>Moisture Content | <b>Not Tested</b><br>Foreign Matter | <b>Yes</b><br>Internal Standard Normalization |
|--------------------------------|------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---|

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

| Analyte             | LOD (%) | LOQ (%) | Result (%)   | Result (mg/g) |
|---------------------|---------|---------|--------------|---------------|
| CBC                 | 0.0095  | 0.0284  | ND           | ND            |
| CBCV                | 0.006   | 0.018   | ND           | ND            |
| CBD                 | 0.0081  | 0.0242  | ND           | ND            |
| CBDV                | 0.0061  | 0.0182  | ND           | ND            |
| CBG                 | 0.0057  | 0.0172  | ND           | ND            |
| CBL                 | 0.0112  | 0.0335  | ND           | ND            |
| CBN                 | 0.0056  | 0.0169  | ND           | ND            |
| CBT                 | 0.018   | 0.054   | ND           | ND            |
| Δ8-THC              | 0.0104  | 0.0312  | 3.28         | 32.8          |
| Δ9-THC              | 0.0076  | 0.0227  | 0.122        | 1.22          |
| Δ9-THCV             | 0.0069  | 0.0206  | ND           | ND            |
| (6aR,9R,10aR)-HHC   | 0.0067  | 0.02    | 35.4         | 354           |
| (6aR,9S,10aR)-HHC   | 0.0067  | 0.02    | 56.0         | 560           |
| <b>Total Δ9-THC</b> |         |         | <b>0.122</b> | <b>1.22</b>   |
| <b>Total</b>        |         |         | <b>94.8</b>  | <b>948</b>    |

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;



Generated By: Ryan Bellone  
 CCO  
 Date: 05/08/2023



Tested By: Scott Caudill  
 Senior Scientist  
 Date: 04/27/2023



ISO/IEC 17025:2017 Accredited  
 Accreditation #108651



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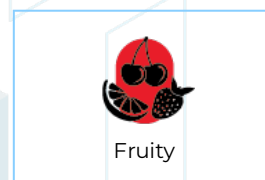
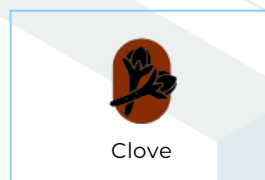
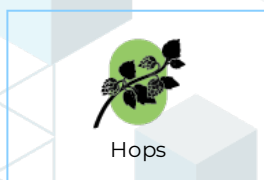
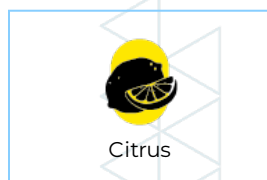
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## Terpenes by GC-MS

| Analyte                | LOD (%) | LOQ (%) | Result (%) | Analyte                   | LOD (%) | LOQ (%) | Result (%)  |
|------------------------|---------|---------|------------|---------------------------|---------|---------|-------------|
| $\alpha$ -Bisabolol    | 0.002   | 0.01    | 0.07908    | Limonene                  | 0.002   | 0.01    | 0.79767     |
| (+)-Borneol            | 0.002   | 0.01    | ND         | Linalool                  | 0.002   | 0.01    | 0.1707      |
| Camphene               | 0.002   | 0.01    | 0.0242     | $\beta$ -myrcene          | 0.002   | 0.01    | 0.42166     |
| Camphor                | 0.004   | 0.02    | <LOQ       | Nerol                     | 0.002   | 0.01    | ND          |
| 3-Carene               | 0.002   | 0.01    | <LOQ       | cis-Nerolidol             | 0.002   | 0.01    | ND          |
| $\beta$ -Caryophyllene | 0.002   | 0.01    | 0.50541    | trans-Nerolidol           | 0.002   | 0.01    | ND          |
| Caryophyllene Oxide    | 0.002   | 0.01    | 0.01761    | Ocimene                   | 0.002   | 0.01    | ND          |
| $\alpha$ -Cedrene      | 0.002   | 0.01    | ND         | $\alpha$ -Phellandrene    | 0.002   | 0.01    | 0.11631     |
| Cedrol                 | 0.002   | 0.01    | ND         | $\alpha$ -Pinene          | 0.002   | 0.01    | 0.08854     |
| Eucalyptol             | 0.002   | 0.01    | <LOQ       | $\beta$ -Pinene           | 0.002   | 0.01    | 0.11033     |
| Fenchone               | 0.004   | 0.02    | ND         | Pulegone                  | 0.002   | 0.01    | ND          |
| Fenchyl Alcohol        | 0.002   | 0.01    | 0.06547    | Sabinene                  | 0.002   | 0.01    | ND          |
| Geraniol               | 0.002   | 0.01    | <LOQ       | Sabinene Hydrate          | 0.002   | 0.01    | ND          |
| Geranyl Acetate        | 0.002   | 0.01    | ND         | $\alpha$ -Terpinene       | 0.002   | 0.01    | <LOQ        |
| Guaiol                 | 0.002   | 0.01    | ND         | $\gamma$ -Terpinene       | 0.002   | 0.01    | <LOQ        |
| Hexadhydrothymol       | 0.002   | 0.01    | 0.0108     | $\alpha$ -Terpineol       | 0.001   | 0.005   | 0.05116     |
| $\alpha$ -Humulene     | 0.002   | 0.01    | 0.05449    | $\gamma$ -Terpineol       | 0.001   | 0.005   | ND          |
| Isoborneol             | 0.002   | 0.01    | <LOQ       | Terpinolene               | 0.002   | 0.01    | 0.03515     |
| Isopulegol             | 0.002   | 0.01    | ND         | Valencene                 | 0.002   | 0.01    | ND          |
|                        |         |         |            | <b>Total Terpenes (%)</b> |         |         | <b>2.59</b> |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit




Generated By: Ryan Bellone  
 CCO  
 Date: 05/08/2023



Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 05/01/2023



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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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Generated By: Ryan Bellone  
 CCO

Date: 05/08/2023



Tested By: Kelsey Rogers  
 Scientist

Date: 04/20/2023



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## Pesticides by LC-MS/MS

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

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone  
 CCO  
 Date: 05/08/2023



Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 04/24/2023



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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           |
| Ochratoxin A | 1         | 5         | ND           |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone  
 CCO  
 Date: 05/08/2023



Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 04/24/2023



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## Microbials by PCR and Plating

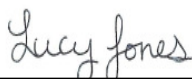
| Analyte                              | LOD (CFU/g) | Result (CFU/g) |
|--------------------------------------|-------------|----------------|
| Total aerobic count                  | 1           | ND             |
| Total coliforms                      | 1           | ND             |
| Generic E. coli                      | 1           | ND             |
| Salmonella spp.                      | 1           | ND             |
| Shiga-toxin producing E. coli (STEC) | 1           | ND             |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone  
 CCO

Date: 05/08/2023



Tested By: Lucy Jones  
 Scientist

Date: 04/25/2023



## HHC Vape Cartridge - Snowman - 1 ml

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## Residual Solvents by HS-GC-MS

| Analyte               | LOD (ppm) | LOQ (ppm) | Result (ppm) | Analyte                  | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|-----------------------|-----------|-----------|--------------|--------------------------|-----------|-----------|--------------|
| Acetone               | 167       | 500       | ND           | Ethylene Glycol          | 21        | 62        | ND           |
| Acetonitrile          | 14        | 41        | ND           | Ethylene Oxide           | 0.5       | 1         | ND           |
| Benzene               | 0.5       | 1         | ND           | Heptane                  | 167       | 500       | ND           |
| Butane                | 167       | 500       | ND           | n-Hexane                 | 10        | 29        | ND           |
| 1-Butanol             | 167       | 500       | ND           | Isobutane                | 167       | 500       | ND           |
| 2-Butanol             | 167       | 500       | ND           | Isopropyl Acetate        | 167       | 500       | ND           |
| 2-Butanone            | 167       | 500       | ND           | Isopropyl Alcohol        | 167       | 500       | ND           |
| Chloroform            | 2         | 6         | ND           | Isopropylbenzene         | 167       | 500       | ND           |
| Cyclohexane           | 129       | 388       | ND           | Methanol                 | 100       | 300       | ND           |
| 1,2-Dichloroethane    | 0.5       | 1         | ND           | 2-Methylbutane           | 10        | 29        | ND           |
| 1,2-Dimethoxyethane   | 4         | 10        | ND           | Methylene Chloride       | 20        | 60        | ND           |
| Dimethyl Sulfoxide    | 167       | 500       | ND           | 2-Methylpentane          | 10        | 29        | ND           |
| N,N-Dimethylacetamide | 37        | 109       | ND           | 3-Methylpentane          | 10        | 29        | ND           |
| 2,2-Dimethylbutane    | 10        | 29        | ND           | n-Pentane                | 167       | 500       | ND           |
| 2,3-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           |

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Tested By: Scott Caudill  
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## Reporting Limit Appendix

### Heavy Metals - Colorado CDPHE

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|---------|-------------|---------|-------------|
| Arsenic | 1500        | Lead    | 500         |
| Cadmium | 500         | Mercury | 1500        |

### Microbials -

| Analyte         | Limit (CFU/g) | Analyte             | Limit (CFU/g) |
|-----------------|---------------|---------------------|---------------|
| Total coliforms | 100           | Total aerobic count | 100000        |

### Residual Solvents - USP 467

| Analyte               | Limit (ppm) | Analyte                  | Limit (ppm) |
|-----------------------|-------------|--------------------------|-------------|
| Acetone               | 5000        | Ethylene Glycol          | 620         |
| Acetonitrile          | 410         | Ethylene Oxide           | 1           |
| Benzene               | 2           | Heptane                  | 5000        |
| Butane                | 5000        | n-Hexane                 | 290         |
| 1-Butanol             | 5000        | Isobutane                | 5000        |
| 2-Butanol             | 5000        | Isopropyl Acetate        | 5000        |
| 2-Butanone            | 5000        | Isopropyl Alcohol        | 5000        |
| Chloroform            | 60          | Isopropylbenzene         | 5000        |
| Cyclohexane           | 3880        | Methanol                 | 3000        |
| 1,2-Dichloroethane    | 5           | 2-Methylbutane           | 290         |
| 1,2-Dimethoxyethane   | 100         | Methylene Chloride       | 600         |
| Dimethyl Sulfoxide    | 5000        | 2-Methylpentane          | 290         |
| N,N-Dimethylacetamide | 1090        | 3-Methylpentane          | 290         |
| 2,2-Dimethylbutane    | 290         | n-Pentane                | 5000        |
| 2,3-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        |

### Pesticides - CA DCC

| Analyte              | Limit (ppb) | Analyte            | Limit (ppb) |
|----------------------|-------------|--------------------|-------------|
| Azoxystrobin         | 40000       | Imidacloprid       | 3000        |
| Bifenazate           | 5000        | Kresoxim methyl    | 1000        |
| Bifenthrin           | 500         | Malathion          | 5000        |
| Boscalid             | 10000       | Metalaxyl          | 15000       |
| Carbaryl             | 500         | Methiocarb         | 30          |
| Carbofuran           | 30          | Methomyl           | 100         |
| Chloranthraniliprole | 40000       | Mevinphos          | 30          |
| Chlorfenapyr         | 30          | Myclobutanil       | 9000        |
| Chlorpyrifos         | 30          | Naled              | 500         |
| Clofentezine         | 500         | Oxamyl             | 200         |
| Coumaphos            | 30          | Pacllobutrazol     | 30          |
| Daminozide           | 30          | Permethrin         | 20000       |
| Diazinon             | 200         | Phosmet            | 200         |
| Dichlorvos           | 30          | Piperonyl Butoxide | 8000        |
| Dimethoate           | 30          | Prallethrin        | 400         |
| Dimethomorph         | 20000       | Propiconazole      | 20000       |
| Ethoprophos          | 30          | Propoxur           | 30          |
| Etofenprox           | 30          | Pyrethrins         | 1000        |
| Etoazole             | 1500        | Pyridaben          | 3000        |
| Fenhexamid           | 10000       | Spinetoram         | 3000        |
| Fenoxycarb           | 30          | Spinosad           | 3000        |
| Fenpyroximate        | 2000        | Spiromesifen       | 12000       |
| Fipronil             | 30          | Spirotetramat      | 13000       |
| Flonicamid           | 2000        | Spiroxamine        | 30          |
| Fludioxonil          | 30000       | Tebuconazole       | 2000        |

### Mycotoxins - Colorado CDPHE

| Analyte      | Limit (ppm) | Analyte | Limit (ppm) |
|--------------|-------------|---------|-------------|
| B1           | 5           | B2      | 5           |
| G1           | 5           | G2      | 5           |
| Ochratoxin A | 5           |         |             |

### Pesticides - CA DCC

| Analyte     | Limit (ppb) | Analyte     | Limit (ppb) |
|-------------|-------------|-------------|-------------|
| Acephate    | 5000        | Hexythiazox | 2000        |
| Acetamiprid | 5000        | Imazalil    | 30          |

