

### 3Chi CBN isolate-powder

 Sample ID: SA-230324-18970  
 Batch: 10MAR2023-CBNIP  
 Type: Finished Products  
 Matrix: Concentrate - Isolate  
 Unit Mass (g):

 Collected: 03/10/2023  
 Received: 03/29/2023  
 Completed: 04/11/2023

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


### Summary

| Test              | Date Tested | Status |
|-------------------|-------------|--------|
| Cannabinoids      | 04/06/2023  | Tested |
| Heavy Metals      | 04/04/2023  | Tested |
| Microbials        | 04/11/2023  | Tested |
| Mycotoxins        | 04/11/2023  | Tested |
| Pesticides        | 04/11/2023  | Tested |
| Residual Solvents | 04/06/2023  | Tested |

|                           |                      |                                     |                                       |                                     |                                               |
|---------------------------|----------------------|-------------------------------------|---------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>ND</b><br>Total Δ9-THC | <b>99.5 %</b><br>CBN | <b>99.5 %</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            |
| 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  | 99.5        | 995           |
| CBNA                | 0.006   | 0.0181  | ND          | ND            |
| CBT                 | 0.018   | 0.054   | 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            |
| <b>Total Δ9-THC</b> |         |         | <b>ND</b>   | <b>ND</b>     |
| <b>Total CBD</b>    |         |         | <b>ND</b>   | <b>ND</b>     |
| <b>Total</b>        |         |         | <b>99.5</b> | <b>995</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: 04/11/2023



 Tested By: Nicholas Howard  
 Scientist  
 Date: 04/06/2023

 ISO/IEC 17025:2017 Accredited  
 Accreditation #108651


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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           |

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: 04/11/2023



Tested By: Kelsey Rogers  
 Scientist

Date: 04/04/2023



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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           |
| Aldicarb             | 30        | 100       | ND           | Imidacloprid       | 30        | 100       | ND           |
| Azoxystrobin         | 30        | 100       | ND           | Kresoxim methyl    | 30        | 100       | ND           |
| Bifenazate           | 30        | 100       | ND           | Malathion          | 30        | 100       | ND           |
| Bifenthrin           | 30        | 100       | ND           | Metaxyl            | 30        | 100       | ND           |
| Boscalid             | 30        | 100       | ND           | Methiocarb         | 30        | 100       | ND           |
| Carbaryl             | 30        | 100       | ND           | Methomyl           | 30        | 100       | ND           |
| Carbofuran           | 30        | 100       | ND           | Mevinphos          | 30        | 100       | ND           |
| Chloranthraniliprole | 30        | 100       | ND           | Myclobutanil       | 30        | 100       | ND           |
| Chlorfenapyr         | 30        | 100       | ND           | Oxamyl             | 30        | 100       | ND           |
| Chlorpyrifos         | 30        | 100       | ND           | Paclobutrazol      | 30        | 100       | ND           |
| Clofentezine         | 30        | 100       | ND           | Permethrin         | 30        | 100       | ND           |
| Coumaphos            | 30        | 100       | ND           | Phosmet            | 30        | 100       | ND           |
| Daminozide           | 30        | 100       | ND           | Piperonyl Butoxide | 30        | 100       | ND           |
| Diazinon             | 30        | 100       | ND           | Prallethrin        | 30        | 100       | ND           |
| Dichlorvos           | 30        | 100       | ND           | Propiconazole      | 30        | 100       | ND           |
| Dimethoate           | 30        | 100       | ND           | Propoxur           | 30        | 100       | ND           |
| Dimethomorph         | 30        | 100       | ND           | Pyrethrins         | 30        | 100       | ND           |
| Ethoprophos          | 30        | 100       | ND           | Pyridaben          | 30        | 100       | ND           |
| Etofenprox           | 30        | 100       | ND           | Spinetoram         | 30        | 100       | ND           |
| Etoxazole            | 30        | 100       | ND           | Spinosad           | 30        | 100       | ND           |
| Fenhexamid           | 30        | 100       | ND           | Spiromesifen       | 30        | 100       | ND           |
| Fenoxycarb           | 30        | 100       | ND           | Spirotetramat      | 30        | 100       | ND           |
| Fenpyroximate        | 30        | 100       | ND           | Spiroxamine        | 30        | 100       | ND           |
| Fipronil             | 30        | 100       | ND           | Tebuconazole       | 30        | 100       | ND           |
| Flonicamid           | 30        | 100       | ND           | Thiacloprid        | 30        | 100       | ND           |
| Fludioxonil          | 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: 04/11/2023



Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 04/11/2023



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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: 04/11/2023



Tested By: Jasper van Heemst  
 Principal Scientist  
 Date: 04/11/2023



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## Microbials by PCR and Plating

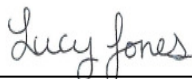
| Analyte                              | LOD (CFU/g) | Result (CFU/g) |
|--------------------------------------|-------------|----------------|
| Total aerobic count                  | 1           | ND             |
| Total coliforms                      | 1           | ND             |
| Generic E. 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: 04/11/2023



Tested By: Lucy Jones  
 Scientist

Date: 04/11/2023



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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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Generated By: Ryan Bellone  
 CCO  
 Date: 04/11/2023



Tested By: Scott Caudill  
 Senior Scientist  
 Date: 04/06/2023





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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) |
|----------------------|-------------|--------------------|-------------|
| Aldicarb             | 30          | Imidacloprid       | 3000        |
| Azoxystrobin         | 40000       | Kresoxim methyl    | 1000        |
| Bifenazate           | 5000        | Malathion          | 5000        |
| Bifenthrin           | 500         | Metalaxyl          | 15000       |
| Boscalid             | 10000       | Methiocarb         | 30          |
| Carbaryl             | 500         | Methomyl           | 100         |
| Carbofuran           | 30          | Mevinphos          | 30          |
| Chloranthraniliprole | 40000       | Myclobutanil       | 9000        |
| Chlorfenapyr         | 30          | Oxamyl             | 200         |
| Chlorpyrifos         | 30          | Paclobutrazol      | 30          |
| Clofentezine         | 500         | Permethrin         | 20000       |
| Coumaphos            | 30          | Phosmet            | 200         |
| Daminozide           | 30          | Piperonyl Butoxide | 8000        |
| Diazinon             | 200         | Prallethrin        | 400         |
| Dichlorvos           | 30          | Propiconazole      | 20000       |
| Dimethoate           | 30          | Propoxur           | 30          |
| Dimethomorph         | 20000       | Pyrethrins         | 1000        |
| Ethoprophos          | 30          | Pyridaben          | 3000        |
| Etofenprox           | 30          | Spinetoram         | 3000        |
| Etoazole             | 1500        | Spinosad           | 3000        |
| Fenhexamid           | 10000       | Spiromesifen       | 12000       |
| Fenoxycarb           | 30          | Spirotetramat      | 13000       |
| Fenpyroximate        | 2000        | Spiroxamine        | 30          |
| Fipronil             | 30          | Tebuconazole       | 2000        |
| Fonicamid            | 2000        | Thiacloprid        | 30          |
| Fludioxonil          | 30000       | Thiamethoxam       | 4500        |

### 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          |

