

## Mother Distillate

Sample ID: 2307APO1820.8748  
Strain: IO-0728

Matrix: Concentrates & Extracts  
Type: Distillate

Produced:  
Collected: 07/25/2023 04:17 pm  
Received: 07/25/2023  
Completed: 08/09/2023  
Batch #: IO-0728

Client  
**Io Extracts**  
Lic. # 00000077DCPS00216601

Lot #: IO-0728



## Summary

| Test              | Date Tested | Result   |
|-------------------|-------------|----------|
| Batch             |             | Pass     |
| Cannabinoids      | 07/25/2023  | Complete |
| Residual Solvents | 08/03/2023  | Pass     |
| Microbials        | 08/07/2023  | Pass     |
| Mycotoxins        | 08/07/2023  | Pass     |
| Pesticides        | 08/07/2023  | Pass     |
| Heavy Metals      | 08/03/2023  | Pass     |

## Cannabinoids

Complete

|                 |           |                                    |                                |
|-----------------|-----------|------------------------------------|--------------------------------|
| <b>91.6094%</b> | <b>ND</b> | <b>97.5512%</b>                    | <b>NT</b>                      |
| Total THC       | Total CBD | Total Cannabinoids <sup>(Q3)</sup> | Total Terpenes <sup>(Q3)</sup> |

| Analyte          | LOD<br>% | LOQ<br>% | Result<br>%    | Result<br>mg/g  | Q |
|------------------|----------|----------|----------------|-----------------|---|
| THCa             |          | 0.1000   | ND             | ND              |   |
| Δ9-THC           |          | 0.1000   | 91.6094        | 916.094         |   |
| Δ8-THC           |          | 0.1000   | ND             | ND              |   |
| THCV             |          | 0.1000   | 0.5565         | 5.565           |   |
| CBDa             |          | 0.1000   | ND             | ND              |   |
| CBD              |          | 0.1000   | ND             | ND              |   |
| CBDVa            |          | 0.1000   | ND             | ND              |   |
| CBDV             |          | 0.1000   | ND             | ND              |   |
| CBN              |          | 0.1000   | 2.6876         | 26.876          |   |
| CBGa             |          | 0.1000   | ND             | ND              |   |
| CBG              |          | 0.1000   | 2.3722         | 23.722          |   |
| CBC              |          | 0.1000   | 0.3255         | 3.255           |   |
| <b>Total THC</b> |          |          | <b>91.6094</b> | <b>916.0940</b> |   |
| <b>Total CBD</b> |          |          | <b>ND</b>      | <b>ND</b>       |   |
| <b>Total</b>     |          |          | <b>97.5512</b> | <b>975.512</b>  |   |

Date Tested: 07/25/2023 07:00 am



Bryant Kearl  
Lab Director  
08/09/2023

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## Pesticides

| Analyte             | LOQ    | Limit  | Units | Q  | Status | Analyte            | LOQ    | Limit  | Units | Q  | Status |
|---------------------|--------|--------|-------|----|--------|--------------------|--------|--------|-------|----|--------|
|                     | PPM    | PPM    | PPM   |    |        |                    | PPM    | PPM    | PPM   |    |        |
| Abamectin           | 0.2500 | 0.5000 | ND    | M2 | Pass   | Hexythiazox        | 0.5000 | 1.0000 | ND    |    | Pass   |
| Acephate            | 0.2000 | 0.4000 | ND    |    | Pass   | Imazalil           | 0.1000 | 0.2000 | ND    |    | Pass   |
| Acequinocyl         | 1.0000 | 2.0000 | ND    |    | Pass   | Imidacloprid       | 0.2000 | 0.4000 | ND    |    | Pass   |
| Acetamiprid         | 0.1000 | 0.2000 | ND    |    | Pass   | Kresoxim Methyl    | 0.2000 | 0.4000 | ND    |    | Pass   |
| Aldicarb            | 0.2000 | 0.4000 | ND    |    | Pass   | Malathion          | 0.1000 | 0.2000 | ND    |    | Pass   |
| Azoxystrobin        | 0.1000 | 0.2000 | ND    |    | Pass   | Metalaxyl          | 0.1000 | 0.2000 | ND    |    | Pass   |
| Bifenazate          | 0.1000 | 0.2000 | ND    | M1 | Pass   | Methiocarb         | 0.1000 | 0.2000 | ND    |    | Pass   |
| Bifenthrin          | 0.1000 | 0.2000 | ND    |    | Pass   | Methomyl           | 0.2000 | 0.4000 | ND    |    | Pass   |
| Boscalid            | 0.2000 | 0.4000 | ND    |    | Pass   | Myclobutanil       | 0.1000 | 0.2000 | ND    |    | Pass   |
| Carbaryl            | 0.1000 | 0.2000 | ND    |    | Pass   | Naled              | 0.2500 | 0.5000 | ND    |    | Pass   |
| Carbofuran          | 0.1000 | 0.2000 | ND    |    | Pass   | Oxamyl             | 0.5000 | 1.0000 | ND    |    | Pass   |
| Chlorantraniliprole | 0.1000 | 0.2000 | ND    |    | Pass   | Paclobutrazol      | 0.2000 | 0.4000 | ND    |    | Pass   |
| Chlorfenapyr        | 0.5000 | 1.0000 | ND    |    | Pass   | Permethrins        | 0.1000 | 0.2000 | ND    | M2 | Pass   |
| Chlorpyrifos        | 0.1000 | 0.2000 | ND    |    | Pass   | Phosmet            | 0.1000 | 0.2000 | ND    |    | Pass   |
| Clofentezine        | 0.1000 | 0.2000 | ND    |    | Pass   | Piperonyl Butoxide | 1.0000 | 2.0000 | ND    |    | Pass   |
| Cyfluthrin          | 0.5000 | 1.0000 | ND    |    | Pass   | Prallethrin        | 0.1000 | 0.2000 | ND    |    | Pass   |
| Cypermethrin        | 0.5000 | 1.0000 | ND    |    | Pass   | Propiconazole      | 0.2000 | 0.4000 | ND    |    | Pass   |
| Daminozide          | 0.5000 | 1.0000 | ND    |    | Pass   | Propoxur           | 0.1000 | 0.2000 | ND    |    | Pass   |
| Diazinon            | 0.1000 | 0.2000 | ND    |    | Pass   | Pyrethrins         | 0.5000 | 1.0000 | ND    | M1 | Pass   |
| Dichlorvos          | 0.0500 | 0.1000 | ND    |    | Pass   | Pyridaben          | 0.1000 | 0.2000 | ND    |    | Pass   |
| Dimethoate          | 0.1000 | 0.2000 | ND    |    | Pass   | Spinosad           | 0.1000 | 0.2000 | ND    | M1 | Pass   |
| Ethoprophos         | 0.1000 | 0.2000 | ND    |    | Pass   | Spiromesifen       | 0.1000 | 0.2000 | ND    |    | Pass   |
| Etofenprox          | 0.2000 | 0.4000 | ND    | M2 | Pass   | Spirotetramat      | 0.1000 | 0.2000 | ND    |    | Pass   |
| Etoxazole           | 0.1000 | 0.2000 | ND    |    | Pass   | Spiroxamine        | 0.2000 | 0.4000 | ND    | M1 | Pass   |
| Fenoxycarb          | 0.1000 | 0.2000 | ND    |    | Pass   | Tebuconazole       | 0.2000 | 0.4000 | ND    |    | Pass   |
| Fenpyroximate       | 0.2000 | 0.4000 | ND    |    | Pass   | Thiacloprid        | 0.1000 | 0.2000 | ND    |    | Pass   |
| Fipronil            | 0.2000 | 0.4000 | ND    |    | Pass   | Thiamethoxam       | 0.1000 | 0.2000 | ND    |    | Pass   |
| Flonicamid          | 0.5000 | 1.0000 | ND    |    | Pass   | Trifloxystrobin    | 0.1000 | 0.2000 | ND    |    | Pass   |
| Fludioxonil         | 0.2000 | 0.4000 | ND    |    | Pass   |                    |        |        |       |    |        |

## Herbicides

| Analyte       | LOQ    | Limit  | Units | Q | Status |
|---------------|--------|--------|-------|---|--------|
|               | PPM    | PPM    | PPM   |   |        |
| Pendimethalin | 0.0500 | 0.1000 | ND    |   | Pass   |

Date Tested: 08/07/2023 07:00 am  
Pendimethalin is no longer a regulated parameter pursuant to HB2605 2021.



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08/09/2023

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## Microbials

Pass

| Analyte               | Limit                       | Result | Status | Q |
|-----------------------|-----------------------------|--------|--------|---|
| Salmonella SPP        | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus flavus    | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus fumigatus | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus niger     | Detected/Not Detected in 1g | ND     | Pass   |   |
| Aspergillus terreus   | Detected/Not Detected in 1g | ND     | Pass   |   |

| Analyte | LOQ           | Limit          | Result              | Status | Q |
|---------|---------------|----------------|---------------------|--------|---|
| E. Coli | CFU/g<br>10.0 | CFU/g<br>100.0 | CFU/g<br>< 10 CFU/g | Pass   |   |

Date Tested: 08/07/2023 12:00 am

## Mycotoxins

Pass

| Analyte          | LOD   | LOQ   | Limit | Units | Status | Q  |
|------------------|-------|-------|-------|-------|--------|----|
|                  | µg/kg | µg/kg | µg/kg | µg/kg |        |    |
| B1               | 5     | 10    | 20    | ND    | Pass   | R1 |
| B2               | 5     | 10    | 20    | ND    | Pass   |    |
| G1               | 5     | 10    | 20    | ND    | Pass   |    |
| G2               | 5     | 10    | 20    | ND    | Pass   |    |
| Total Aflatoxins | 5     | 10    | 20    | ND    | Pass   | R1 |
| Ochratoxin A     | 5     | 10    | 20    | ND    | Pass   |    |

Date Tested: 08/07/2023 07:00 am

## Heavy Metals

Pass

| Analyte | LOD   | LOQ   | Limit | Units | Status | Q |
|---------|-------|-------|-------|-------|--------|---|
|         | µg/g  | µg/g  | µg/g  | µg/g  |        |   |
| Arsenic | 0.066 | 0.133 | 0.4   | ND    | Pass   |   |
| Cadmium | 0.066 | 0.133 | 0.4   | ND    | Pass   |   |
| Lead    | 0.166 | 0.333 | 1     | ND    | Pass   |   |
| Mercury | 0.2   | 0.4   | 1.2   | ND    | Pass   |   |

Date Tested: 08/03/2023 12:00 am



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**Residual Solvents**

| Analyte                 | LOQ       | Limit     | Mass | Status | Q    |
|-------------------------|-----------|-----------|------|--------|------|
|                         | PPM       | PPM       | PPM  |        | Pass |
| Acetone                 | 381.0000  | 1000.0000 | ND   | Pass   | M2   |
| Acetonitrile            | 154.0000  | 410.0000  | ND   | Pass   |      |
| Benzene                 | 1.0000    | 2.0000    | ND   | Pass   |      |
| Butanes                 | 1914.0000 | 5000.0000 | ND   | Pass   |      |
| Chloroform              | 24.0000   | 60.0000   | ND   | Pass   |      |
| Dichloromethane         | 231.0000  | 600.0000  | ND   | Pass   |      |
| Ethanol                 | 1910.0000 | 5000.0000 | ND   | Pass   |      |
| Ethyl-Acetate           | 1907.0000 | 5000.0000 | ND   | Pass   | M2   |
| Ethyl-Ether             | 1901.0000 | 5000.0000 | ND   | Pass   |      |
| n-Heptane               | 1892.0000 | 5000.0000 | ND   | Pass   | M2   |
| Hexanes                 | 115.0000  | 290.0000  | ND   | Pass   |      |
| Isopropanol             | 1915.0000 | 5000.0000 | ND   | Pass   |      |
| Isopropyl-Acetate       | 1908.0000 | 5000.0000 | ND   | Pass   |      |
| Methanol                | 1141.0000 | 3000.0000 | ND   | Pass   | M2   |
| Pentane                 | 1923.0000 | 5000.0000 | ND   | Pass   |      |
| Propane                 | 1907.0000 | 5000.0000 | ND   | Pass   | M2   |
| Toluene                 | 343.0000  | 890.0000  | ND   | Pass   |      |
| Xylenes + Ethyl Benzene | 841.0000  | 2170.0000 | ND   | Pass   |      |

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**Terpenes**

| Analyte | LOQ | Mass | Mass | Q | Analyte | LOQ | Mass | Mass | Q |
|---------|-----|------|------|---|---------|-----|------|------|---|
|---------|-----|------|------|---|---------|-----|------|------|---|



**Primary Aromas**

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

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**Qualifiers Definitions**

| Qualifier Notation | Qualifier Description  |
|--------------------|--|
| I1                 | The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria in subsection (L)(1) with respect to the reference spectra, indicating interference  |
| L1                 | When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits in subsection (K)(2)(c), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample |
| M1                 | The recovery from the matrix spike in subsection (K)(4) was: a. High, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria  |
| M2                 | The recovery from the matrix spike in subsection (K)(4) was: b. Low, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria   |
| M3                 | The recovery from the matrix spike in subsection (K)(4) was: c. Unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria  |
| R1                 | The relative percent difference for the laboratory control sample and duplicate exceeded the limit in subsection (K)(3), but the recovery in subsection (K)(2) was within acceptance criteria  |
| V1                 | The recovery from continuing calibration verification standards exceeded the acceptance limits in subsection (J)(1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample  |
| Q2                 | The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices - Used to denote that the sample as-received could not be fully pre-homogenized in packaging prior to microbiology analysis   |
| Q3                 | Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317   |



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