

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 39273  
 Order Name: Alaskan Ice  
 2000mg  
 Batch#: 9252-AI-2000  
 Received: 10/21/2019  
 Completed: 10/25/2019

Arise Bioscience Inc.  
 4855 Technology Way Suite 500  
 Boca Raton Florida, 33431  
 (866) 407-1164



### Sample



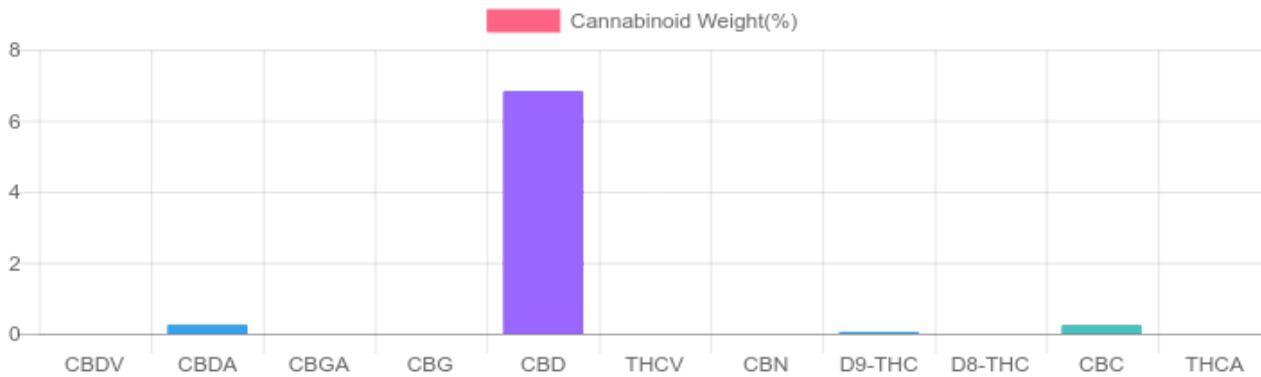
|  |                                   |
|--|-----------------------------------|
| <b>0.055%</b><br>D9-THC                    | <b>7.062%</b><br>Total CBD        |
| <b>2,096.7 mg</b><br>Cannabinoids per unit | <b>2,002.0 mg</b><br>CBD per unit |

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      PREPARED: 10/21/2019 16:21:31      UPLOADED: 10/24/2019 07:07:03

| Cannabinoids       | LOQ    | weight(%) | mg/g   | mg/unit |
|--------------------|--------|-----------|--------|---------|
| D9-THC             | 10 PPM | 0.055%    | 0.552  | 15.6    |
| THCA               | 10 PPM | N/D       | N/D    | N/D     |
| CBD                | 10 PPM | 6.835%    | 68.350 | 1,937.7 |
| CBDA               | 20 PPM | 0.259%    | 2.587  | 73.3    |
| CBDV               | 20 PPM | N/D       | N/D    | N/D     |
| CBC                | 10 PPM | 0.247%    | 2.472  | 70.1    |
| CBN                | 10 PPM | N/D       | N/D    | N/D     |
| CBG                | 10 PPM | N/D       | N/D    | N/D     |
| CBGA               | 20 PPM | N/D       | N/D    | N/D     |
| D8-THC             | 10 PPM | N/D       | N/D    | N/D     |
| THCV               | 10 PPM | N/D       | N/D    | N/D     |
| TOTAL D9-THC       |        | 0.055%    | 0.055% | 15.6    |
| TOTAL CBD*         |        | 7.062%    | 70.619 | 2,002.0 |
| TOTAL CANNABINOIDS |        | 7.396%    | 73.961 | 2,096.7 |

1 unit = 30 ml per unit x density (0.945) x  
 Cannabinoid concentration



Reporting Limit 10 ppm  
 \*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification



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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/21/2019 17:29:57

UPLOADED: 10/24/2019 21:44:34

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN       | 0.700              | N/D           | 0.003     | 0.001     |
| CHLORDANE    | 0.100              | N/D           | 0.003     | 0.001     |
| CHLORFENAPYR | 0.100              | N/D           | 0.003     | 0.001     |
| COUMAPHOS    | 0.100              | N/D           | 0.003     | 0.001     |

| Pesticide               | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN              | 2.000              | N/D           | 0.003     | 0.001     |
| CYPERMETHRIN            | 1.000              | N/D           | 0.003     | 0.001     |
| PARATHION-METHYL        | 0.100              | N/D           | 0.003     | 0.001     |
| PENTACHLORONITROBENZENE | 0.100              | N/D           | 0.003     | 0.001     |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     |
| BOSCALID            | 0.100              | 0.007         | 0.005     | 0.001     |
| CARBARYL            | 0.500              | N/D           | 0.003     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.001     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZANON            | 0.100              | N/D           | 0.001     | 0.001     |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOATE          | 0.100              | N/D           | 0.001     | 0.001     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS         | 0.100              | 0.014         | 0.001     | 0.001     |
| ETOFENPROX          | 0.100              | N/D           | 0.001     | 0.001     |
| ETOXAZOLE           | 0.100              | N/D           | 0.010     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     |
| FIPRONIL            | 0.100              | N/D           | 0.003     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.003     | 0.001     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.001     |

| Pesticide                | Action Level (ppm) | Results (ppm) | LOQ (ppm)    | LOD (ppm)    |
|--------------------------|--------------------|---------------|--------------|--------------|
| IMAZALIL                 | 0.100              | N/D           | 0.005        | 0.001        |
| IMIDACLOPRID             | 5.000              | N/D           | 0.005        | 0.001        |
| KRESOXIM-METHYL          | 0.100              | N/D           | 0.010        | 0.005        |
| MALATHION                | 0.500              | N/D           | 0.005        | 0.001        |
| METALAXYL                | 2.000              | N/D           | 0.001        | 0.001        |
| METHIOCARB               | 0.100              | N/D           | 0.005        | 0.001        |
| METHOMYL                 | 1.000              | N/D           | 0.001        | 0.001        |
| MEVINPHOS                | 0.100              | N/D           | 0.001        | 0.001        |
| MYCLOBUTANIL             | 0.100              | N/D           | 0.005        | 0.001        |
| NALED                    | 0.100              | N/D           | 0.005        | 0.001        |
| OXAMYL                   | 0.500              | N/D           | 0.001        | 0.001        |
| PACLOBUTRAZOL            | 0.100              | N/D           | 0.005        | 0.001        |
| PERMETHRINS              | 0.500              | N/D           | 0.005        | 0.001        |
| PHOSMET                  | 0.100              | N/D           | 0.005        | 0.001        |
| PIPERONYL BUTOXIDE       | 3.000              | N/D           | 0.001        | 0.001        |
| PRALLETHRIN              | 0.100              | N/D           | 0.005        | 0.005        |
| PROPICONAZOLE            | 0.100              | N/D           | 0.010        | 0.005        |
| PROPOXUR                 | 0.100              | N/D           | 0.001        | 0.001        |
| PYRETHRINS (PYRETHRIN I) | 0.500              | N/D           | 0.005        | 0.005        |
| PYRIDABEN                | 0.100              | N/D           | 0.005        | 0.001        |
| SPINETORAM               | 0.100              | N/D           | 0.001        | 0.001        |
| SPINOSAD                 | 0.100              | N/D           | 0.001        | 0.001        |
| <b>SPIROMESIFEN</b>      | <b>0.100</b>       | <b>2.551</b>  | <b>0.005</b> | <b>0.001</b> |
| SPIROTETRAMAT            | 0.100              | N/D           | 0.001        | 0.001        |
| SPIROXAMINE              | 0.100              | N/D           | 0.001        | 0.001        |
| TEBUCONAZOLE             | 0.100              | N/D           | 0.005        | 0.001        |
| THIACLOPRID              | 0.100              | N/D           | 0.001        | 0.001        |
| THIAMETHOXAM             | 5.000              | N/D           | 0.001        | 0.001        |
| TRIFLOXYSTROBIN          | 0.100              | N/D           | 0.001        | 0.001        |

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 10/21/2019 17:18:10

Uploaded: 10/22/2019 19:14:21

| Residual Solvent  | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------|--------------------|---------------|-----------|-----------|
| ACETONE           | 5,000              | N/D           | 140       | 20        |
| ACETONITRILE      | 410                | N/D           | 25        | 1         |
| BENZENE           | 1                  | N/D           | 1         | 0.5       |
| BUTANE            | 5,000              | N/D           | 50        | 10        |
| CHLOROFORM        | 1                  | N/D           | 1         | 0.5       |
| DICHLOROETHANE    | 1                  | N/D           | 1         | 0.5       |
| DICHLOROMETHANE   | 1                  | N/D           | 1         | 0.5       |
| ETHANOL           | 5,000              | N/D           | 140       | 20        |
| ETHYL ACETATE     | 5,000              | N/D           | 140       | 20        |
| ETHYL ETHER       | 5,000              | N/D           | 140       | 20        |
| ISOPROPYL ALCOHOL | 5,000              | N/D           | 140       | 20        |
| METHANOL          | 3,000              | N/D           | 100       | 20        |
| N-HEPTANE         | 5,000              | N/D           | 140       | 20        |
| N-HEXANE          | 290                | N/D           | 18        | 10        |
| PENTANE           | 5,000              | N/D           | 140       | 20        |
| PROPANE           | 5,000              | N/D           | 20        | 1         |
| TOLUENE           | 890                | N/D           | 53        | 1         |
| TRICHLOROETHENE   | 1                  | N/D           | 0         | 0         |
| XYLENES           | 2,170              | N/D           | 130       | 20        |



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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 10/25/2019 13:02:10

PCR - Agilent AriaMX

| Test                   | Test Method Used | Device Used | LOD               | Allowable Criteria | Actual Result   | Pass/Fail |
|------------------------|------------------|-------------|-------------------|--------------------|-----------------|-----------|
| STEC E.COLI*           | USP 61/62†       | ARIAMX PCR  | 2 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| SALMONELLA*            | USP 61/62†       | ARIAMX PCR  | 5 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| ASPERGILLUS            | USP 61/62†       | ARIAMX PCR  | ASP_LOD***        | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| YEAST AND MOLD         | USP 61/62†       | ARIAMX PCR  | 363.05518 CFU/G** | 1,000              | BELOW THRESHOLD | PASS      |
| TOTAL AEROBIC BACTERIA | USP 61/62†       | ARIAMX PCR  | 0.25316 CFU/G**   | 10,000             | BELOW THRESHOLD | PASS      |
| COLIFORM               | USP 61/62†       | ARIAMX PCR  | 3.41539 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |
| ENTEROBACTERIACEAE     | USP 61/62†       | ARIAMX PCR  | 0.32951 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

\* STEC and Salmonella run as Multiplex

\*\* CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA



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### Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

Uploaded: 10/24/2019 21:44:34

| Analyte      | Action Lvl (ppb) | Results (ppb) |
|--------------|------------------|---------------|
| AFLATOXIN B1 | 20               | N/D           |
| AFLATOXIN B2 | 20               | N/D           |
| AFLATOXIN G1 | 20               | N/D           |
| AFLATOXIN G2 | 20               | N/D           |
| OCHRATOXIN A | 20               | N/D           |

LOQ is 4ppb, LOD is 1ppb

### Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 10/22/2019 11:17:15

#### Water

0.57

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 10/23/2019 16:33:25

| Metal        | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200                | B/LOQ        |
| CADMIUM (CD) | 200                | B/LOQ        |
| MERCURY (HG) | 100                | B/LOQ        |
| LEAD (PB)    | 500                | B/LOQ        |

Lower Limit of Quantitation (LOQ) is 75 ppb

### Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 10/22/2019 11:20:53

Pass: No Foreign Materials Detected



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