

CERTIFICATE OF ANALYSIS



Order #: 32767
Order Name: FULL
SPECTRUM ENERGY ARB
(FP)
Batch#: 44483
Received: 06/26/2019
Completed: 07/01/2019

Arise Bioscience Inc.
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Boca Raton Florida, 33431
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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

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| 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

Microbial Analysis:

PCR - Agilent AriaMX

| Test | Test Method Used | Device Used | LOD | Allowable Amount | 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 |

† 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

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

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

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Water

0.66

Filth and Foreign Materials Analysis:

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

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No foreign materials detected.

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

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| 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

Microbial Analysis GSL SOP 406

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Dylan Swart, Lab Director

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