



# ARL

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## Certificate of Analysis

### Client Information

### Sample Information

ARL ID: 283397  
Date Received: 4/26/2019  
Description: TL BCAA Sour Green Apple  
Lot#: 19042253

| Analysis                         | Method         | MDL    | Specification | Results       | UOM       |
|----------------------------------|----------------|--------|---------------|---------------|-----------|
| Complete Micro Profile, HM, FTIR | USP, AOAC      |        |               |               |           |
| Total Plate Count                | USP <2021>     | 100    | Record Only   | None Detected | cfu's/g   |
| Coliforms                        | AOAC 991.14    | 10     | Record Only   | None Detected | cfu's/g   |
| E. coli                          | USP <2022>     | Absent | Record Only   | Absent        | cfu's/10g |
| Staphylococcus aureus            | USP <2022>     | Absent | Record Only   | Absent        | cfu's/10g |
| Salmonella                       | USP <2022>     | Absent | Record Only   | Absent        | cfu's/10g |
| Yeast (Rapid)                    | AOAC RI        | 100    | Record Only   | None Detected | cfu's/g   |
| Mold (Rapid)                     | AOAC RI        | 100    | Record Only   | None Detected | cfu's/g   |
| Heavy Metals                     | ARL ICPMS 2.60 |        |               |               |           |
| Arsenic (As)                     | ARL ICPMS 2.60 | 0.001  | Record Only   | < 0.001       | ppm       |
| Cadmium (Cd)                     | ARL ICPMS 2.60 | 0.001  | Record Only   | < 0.001       | ppm       |
| Mercury (Hg)                     | ARL ICPMS 2.60 | 0.001  | Record Only   | 0.004         | ppm       |
| Lead (Pb)                        | ARL ICPMS 2.60 | 0.001  | Record Only   | 0.036         | ppm       |
| FTIR Package                     | FTIR           |        |               |               |           |
| Appearance                       | ARL 2.03       |        | Record Only   | Powder        |           |
| Color                            | ARL 2.03       |        | Record Only   | White         |           |
| Flavor                           | ARL 2.03       |        | Record Only   | Apple         |           |
| Odor                             | ARL 2.03       |        | Record Only   | Sweet         |           |
| FT-IR Analysis                   | FT-IR 2.04     | 0.1    | > 95          | 98.0          | %         |

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experience • professionalism • value

Released by: Dylan Kimball

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This Certificate of Analysis represents data only for the sample provided and does not constitute a guarantee of quality for the entire production lot.