



Certificate of Analysis

Client: Xocolatl Small Batch Chocolate
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Invoice Number: 21-11959 Revised

PO Number:

Received Date: 7/22/2021

Approved By:

Approved Date: 7/30/2021

Project Name:

| Lab #: 48358 | | Sample: Nicaragua Cacao Husks | | | Sample Date: | |
|-----------------------|---|-------------------------------|-----------------|----------------------|--------------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Administration | | | | | | |
| Note | 1 tbsp husks steeped in 8 oz boiling water; cooled down before analysis | None | | ESS_1.1.35 | KN | 7/30/2021 |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/30/2021 |
| I Cadmium | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/30/2021 |
| I Chromium | <0.0350 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | KN | 7/30/2021 |
| I Lead | 0.0111 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/30/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | KN | 7/30/2021 |

| Lab #: 48359 | | Sample: Peru 70% Chocolate Bar | | | Sample Date: | |
|---------------------|---------|--------------------------------|-----------------|----------------------|--------------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Cadmium | 0.189 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Chromium | 0.505 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Lead | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | MH | 7/26/2021 |

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| Lab #: 48360 | Sample: Nicaragua 72% Chocolate Bar | Sample Date: | | | | |
|---------------------|-------------------------------------|--------------|-----------------|-------------------------|---------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Cadmium | 0.124 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Chromium | 0.273 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Lead | 0.0123 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | MH | 7/26/2021 |

| Lab #: 48361 | Sample: Tanzania 73% Chocolate Bar | Sample Date: | | | | |
|---------------------|------------------------------------|--------------|-----------------|-------------------------|---------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Cadmium | 0.0902 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Chromium | 0.455 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Lead | 0.0225 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | MH | 7/26/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | MH | 7/26/2021 |

| Lab #: 48362 | Sample: Uganda 75% Chocolate Bar | Sample Date: | | | | |
|---------------------|----------------------------------|--------------|-----------------|-------------------------|---------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Cadmium | 0.208 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Chromium | 0.237 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Lead | 0.0192 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | KN | 7/27/2021 |

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| Lab #: 48363 | | Sample: Peru 85% Chocolate Bar | | | Sample Date: | |
|---------------------|---------|--------------------------------|-----------------|-------------------------|--------------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Cadmium | 0.238 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Chromium | 0.532 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Lead | 0.0314 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | KN | 7/27/2021 |

| Lab #: 48364 | | Sample: Pure 100% Chocolate Bar | | | Sample Date: | |
|---------------------|---------|---------------------------------|-----------------|-------------------------|--------------|---------------|
| Analyte | Results | Units | Detection Limit | Method | Analyst | Date Analyzed |
| Heavy Metals | | | | | | |
| I Arsenic | <0.01 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Cadmium | 0.159 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Chromium | 0.534 | ppm | 0.035 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Lead | 0.0211 | ppm | 0.01 | ESS_3.2.1.201 ICP-MS | KN | 7/27/2021 |
| I Mercury | <0.01 | ppm | 0.01 | ESS_3.2.1.207 ICP-MS | KN | 7/27/2021 |