Customer: Grassroots Harvest  
321 W. Ben White Blvd Ste 103  
Austin Texas 78704  
United States

Sample ID: Joy 
Sample Matrix: Kratom powder 
Laboratory ID: 19-010199-0002 
Evidence of Cooling: No 
Temp: 25 °C

### Sample Results

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>LOQ</th>
<th>Analyzed</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salmonella spp.</td>
<td>Negative</td>
<td>/25g</td>
<td></td>
<td>08/28/19</td>
<td>AOAC 2016.01 1</td>
</tr>
</tbody>
</table>

1) 3M Molecular Detection of Salmonella

### Mitragynine

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>LOQ</th>
<th>Analyzed</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-Hydroxymitragynine</td>
<td>0.0448</td>
<td>%</td>
<td>0.0100</td>
<td>09/03/19</td>
<td>Japanese Association of Forensic Toxicology (2009) 27:67-74</td>
</tr>
<tr>
<td>Mitragynine</td>
<td>1.69</td>
<td>%</td>
<td>0.250</td>
<td>09/03/19</td>
<td>Japanese Association of Forensic Toxicology (2009) 27:67-74</td>
</tr>
</tbody>
</table>

### Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

↑ = Analyte not ISO accredited.

**Units of Measure**

/25g = Per 25g

% = Percentage of sample

Approved Signatory

Derrick Tanner  
General Manager

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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of the Columbia Food Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a minimum of 15 days from the report date unless prior arrangements have been made.
**Sample Results**

**Microbiology**

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>LOQ</th>
<th>Analyzed</th>
<th>Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listeria monocytogenes</td>
<td>Negative</td>
<td>/25g</td>
<td></td>
<td>08/28/19</td>
<td>AOAC 2016.08 1</td>
<td></td>
</tr>
<tr>
<td>E.coli O157:H7</td>
<td>Negative</td>
<td>/25g</td>
<td></td>
<td>08/28/19</td>
<td>AOAC 2017.01 2</td>
<td></td>
</tr>
</tbody>
</table>

1) 3M Molecular Detection of Listeria monocytogenes  
2) 3M Molecular Detection of E.coli O157

**Abbreviations**

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Units of Measure**

/25g = Per 25g

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