Is a 6% detection rate acceptable for a life-threatening illness?

With Premier™ EHEC, you will detect ALL of the life threatening serotypes.

If you are using an O157:H7 culture place, which only tests for \( E. coli \) O157:H7, your patients are being exposed to those odds. Scientists have recently identified more than 150 shiga-toxin producing \( E. coli \), and the toxin from every one of those serotypes can cause HUS (Hemolytic Uremic Syndrome), resulting in significant injury and even death - particularly with children. Thus, you should be using a test like Meridian’s Premier™ EHEC, which utilizes cutting edge technology to identify all of the harmful serotypes to provide the best patient care possible.

<table>
<thead>
<tr>
<th>ACCURACY COMPARISON EXAMPLE</th>
<th>Culture Plate</th>
<th>Premier EHEC</th>
</tr>
</thead>
<tbody>
<tr>
<td># of samples containing shiga-toxin producing ( E. coli )</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Incidence of O157:H7</td>
<td>12%(^1)</td>
<td>n/a</td>
</tr>
<tr>
<td># of shiga-toxin producing ( E. coli ) to ID</td>
<td>12</td>
<td>100</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>50%(^2)</td>
<td>78.9%(^3)</td>
</tr>
<tr>
<td># of shiga-toxin producing ( E. coli ) identified</td>
<td>6</td>
<td>79</td>
</tr>
<tr>
<td># of shiga-toxin producing ( E. coli ) missed</td>
<td>94</td>
<td>21</td>
</tr>
</tbody>
</table>

The superior technology platform with Premier™ EHEC detects 100% of the shiga-toxin producing serotypes

When using the direct stool procedure, Premier™ EHEC has a sensitivity of 78.9% (with broth enhancement, sensitivity is 100%)

If you think the \( E. coli \) incidence in your patient population is low, think again! If you aren’t testing for the right bacteria, it will look like the incidence in your population is low

The CDC now recommends that laboratories should be testing all samples for EHEC\(^4\)

\(^1\) Paul Granato, M.D., “Enteric Disease Due to Shiga Toxin Producing \( E. coli \)”. Lab Alliance Lablines Publication, September/October, 2005.


\(^3\) Premier™ EHEC Package Insert.

\(^4\) CDC, Foodborne and Diarrheal Diseases Branch, Shiga-toxin –producing Escherichia coli: Data from 2002 and recommendations on reporting, November 12, 2003.
**Test Procedure**

1. Measure 200 µL of Sample Diluent into a test tube.
2. Mix specimen thoroughly. Using a transfer pipet, add 50 µL to the tube. Gently expel and withdraw the suspension several times.
3. Vortex for 15 seconds.
4. Detach microwells needed, place in holder and add 100 µL of diluted specimen to the appropriate well.
5. Add 2 drops of Positive or Negative Control to the appropriate wells. Shake firmly for 30 seconds. Seal the plate and incubate for 1 hour at room temperature.
6. Wash 5 times with 1x Wash Buffer. See package insert for proper wash procedure.
7. Add 2 drops of Detection Antibody to all wells, Seal the plate and incubate for 30 minutes at room temperature.
8. Repeat wash procedure as in Step 6.
9. Add 2 drops of Enzyme Conjugate to all wells. Seal the plate and incubate for 30 minutes at room temperature.
10. Repeat wash procedure as in Step 6.
11. Add 2 drops of Substrate to all wells. Incubate for 10 minutes at room temperature.
12. Add 2 drops of Stop Solution to all wells and shake firmly for 30 seconds.

**Interpretation of Results**

**Visual:**
- Negative = colorless
- Positive = definite yellow color

**Spectrophotometric Single Wavelength (450nm):**
- Negative = OD 450 <0.180
- Positive = OD 450 ≥0.180

**Spectrophotometric Dual Wavelength (450/630nm):**
- Negative = OD 450/630 <0.150
- Positive = OD 450/630 ≥0.150

*This chart does not contain complete instructions for use. For further information, please refer to the package insert.*

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**Ordering Information**

**Other Meridian Products**

<table>
<thead>
<tr>
<th>Premier™ EHEC</th>
<th>Test Size</th>
<th>Meridian#</th>
<th>Cardinal#</th>
<th>Fisher#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96 Microwells</td>
<td>608096</td>
<td>B6853-10</td>
<td>23044894</td>
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<table>
<thead>
<tr>
<th>ImmunoCard STAT!® E. coli 0157 Plus</th>
<th>Test Size</th>
<th>Meridian#</th>
<th>Cardinal#</th>
<th>Fisher#</th>
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</thead>
<tbody>
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<td></td>
<td>30 Test Cards</td>
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<td>B6830-24</td>
<td>14910305</td>
</tr>
</tbody>
</table>

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www.meridianbioscience.com

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