**Evaluation of BluEcoli**: a New Chromogenic Medium for the Isolation and Identification of Urinary Tract Pathogens

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Abstract

The new isolation and identification test should help to increase the availability of traditional culture media in microbiology laboratories. The new isolation and identification test should help to increase the availability of traditional culture media in microbiology laboratories. The new isolation and identification test should help to increase the availability of traditional culture media in microbiology laboratories.

Materials and Methods

The *in-house* study

- The *in-house* group consisted of evaluators primarily identified clinical isolates from Hardy Diagnostic Co. E. coli (n=4), P. aeroginosa (n=2), S. aureus (n=2), E. faecalis (n=1), E. coli (n=1), P. mirabilis (n=1), E. faecalis (n=1), P. aeroginosa (n=1), and S. aureus (n=1). All were tested on BluEcoli. Orientation media for detection and presumptive identification of urinary tract pathogens.

- The plates were incubated aerobically at 35°C and read after 18 to 24 hours of incubation.

- E. coli appears as pink to colored colonies on the chromogenic side of BluEcoli. The young growth on BluEcoli will retain their traditional morphology as seen on MacConkey (pink to slight pink for lactose-positive colonies, and colorless for lactose-negative colonies).

- All isolates were identified by spot tests and by the Vitek automated method if necessary.

- The following results were obtained:

- **Results**:

<table>
<thead>
<tr>
<th>E. coli</th>
<th>BluEcoli</th>
<th>MacConkey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>Blue</td>
<td>Pink</td>
</tr>
<tr>
<td>Negative</td>
<td>Clear</td>
<td>Clear</td>
</tr>
</tbody>
</table>

**Results of the clinical evaluation**

- **10** consecutive urine specimens were evaluated.

- **17** were considered positive for *E. coli*.

- **39** isolates were isolated as *E. coli*.

- **9** isolates were considered as positive *E. coli* isolates, in that they were either indole negative or non-motile on the blu side and needed further confirmatory tests by the Vitek instrument.

- **40** isolates were identified as *E. coli* within 18 to 24 hours without the need for further confirmation.

- **All remaining positive isolates (n=18)** needed further tests for final identification (Vitek, latex agglutination, spot tests).

- **7** isolates showed their traditional MacConkey morphology on the BluEcoli.

For more information on BluEcoli contact Andre Huang, MS

References

1. As shown in Table 1, both methods successfully detected the *E. coli* isolates.
2. Environments-Chromastar 
3. BluEcoli is the trade name for BluEcoli’s ability in identifying *E. coli* in urine specimen.
4. BluEcoli™ can accurately detect *E. coli* without further confirmation.
5. BluEcoli™ is a registered trademark of bioMeriuex, Inc.