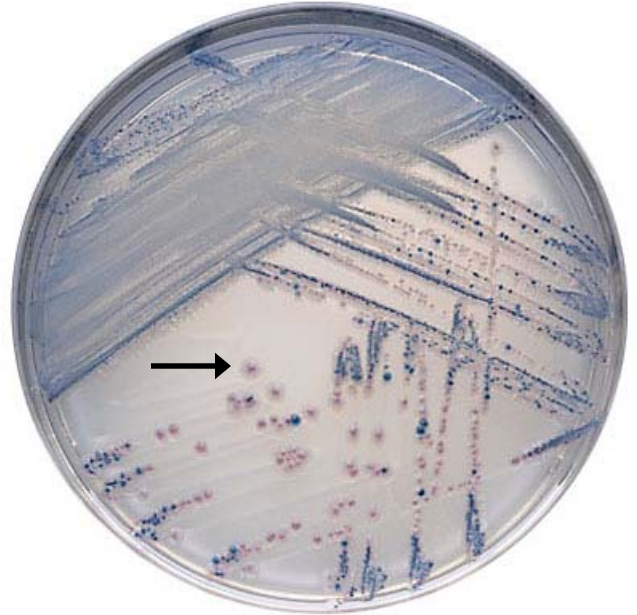


Stool Culture Procedure  
*E. coli* O157 Identification

2. CHROMagar O157 Work-up
  - a. Refer to the CHROMagar O157 Procedure for complete instructions for use.
  - b. Examine medium for suspect “mauve” colonies at 18-24 h. Gram-negative organisms, other than *E. coli* O157, will either be inhibited or produce colorless, blue, green, blue-green or natural color colonies.
  - c. Select several suspect colonies and test using the latex agglutination test for *E. coli* O157. It is important to test latex-positive colonies with the latex control reagent to rule out non-specific reactions. Refer to the *E. coli* O157 Latex Test Procedure for complete instructions.
  - d. If the O157 latex is positive, perform biochemical identification by Phoenix™ NID.
  - e. Do not perform antimicrobial susceptibility testing on *E. coli* O157 isolates.
  - f. Subculture the isolate to two BHI slants. Send one slant to the public health laboratory for H7 typing and hold the other in the refrigerator with send out stocks.
  - g. Notify director and/or supervisor during Rounds if *E. coli* O157 is isolated.



**Note: The identification of *E. coli* O157 is independent of the Shiga toxin test results. There are limitations to the Shiga toxin test. Competing flora can mask *E. coli* O157 and subsequent Shiga toxin production, even with the GN broth enhancement. This is why we have the CHROMagar O157 as part of the stool culture set-up. Culture is more sensitive than the Shiga toxin test for the detection of *E. coli* O157.**

**Suspect colonies growing on the CHROMagar O157 medium should be tested with the O157 latex and the Phoenix NID panel as outlined above. *E. coli* O157 is confirmed by a positive latex and a Phoenix identification of *Escherichia coli*.**