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UMI

Urea – Motility – Indole

For in vitro diagnostic use

Cat No. TT 147
IS 004

Introduction : This product should be used with IS004 Indole Caps .

This medium is used for the differentiation of *Enterobacteriaceae*, based on motility and urease and indole production.

The medium contains peptones which provide carbon and nitrogen required for growth of bacteria. Urea provides a source of nitrogen for those microorganisms producing urease. This is indicated by a color change of the pH indicator, Phenol Red, from yellow – orange, (pH 7,0) to red - pink, (pH 8.1). The low agar concentration allows the demonstration of motility. The Indole Cap (IS004) is impregnated with Indole Reagent for the detection of indole production, shown by the appearance of a pink – mauve colour in the bottom of the cap.

Test Procedure

- 1) Pick isolated colonies with an inoculating needle and stab the medium to the bottom of the tube.
- 2) Discard the plastic cap and recap the tube with the Indole Lignin Cap, (IS 004).
- 3) Incubate at $35\pm 2^{\circ}\text{C}$ for 18-24 hours.
- 4) Examine the tubes for growth, motility and color change of the medium and of the cap, as follows :

Urea – A color change from yellow –orange to pink-red indicates a positive reaction. No color change indicates a negative reaction.

Motility – A positive reaction is shown by clouding of the medium or by growth extension from the inoculating line. A negative reaction is seen when the growth is restricted to the inoculating line.

Indole – Record as Indole Positive Reaction if a pink-mauve color appears on the bottom of the lignin cap and as Indole Negative if there is no color on the cap.



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