

Product Name : Esculin Agar	Product Code : NLAB-CHEMICALSIND21020
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Description :

Esculin Agar

Technical Specification :

Esculin Agar

Esculin Agar is a differential medium for demonstrating esculin hydrolysis by various microorganisms

Directions

Suspend 41.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute into screw capped tubes in 3 ml volumes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool tubes in a slanted position.

Principle And Interpretation

Esculin Agar is based on the formula recommended, for the cultivation and differentiation of bacteria based on their ability to hydrolyze esculin and produce H₂S. The unhydrolyzed esculin can be detected using long wave UV light at 360 nm since they will remain unchanged and fluorescence under UV light. Hydrolyzed esculin will not fluoresce and medium turns black. Esculin is a differentiating agent, which helps in identification of esculin-positive organism. Esculin is hydrolyzed to dextrose and esculetin, which forms a brown black complex in the presence of iron salt.

Quality Control

Appearance: Cream to yellow homogeneous free flowing powder

pH: 7.10-7.50

Gelling: Firm, comparable with 1.5% Agar gel

Reaction: Reaction of 4.15% w/v aqueous solution at 25°C. pH : 7.3±0.2

Colour and Clarity of prepared medium: Amber coloured, clear to slightly opalescent gel forms in tubes as slants.

Naugralabequipments

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