

**Product Name :**  
Kligler Iron Agar

**Product Code :**  
NLAB-CHEMICALSIND21022

**Description :**

Kligler Iron Agar

**Technical Specification :**

Kligler Iron Agar

Kligler Iron Agar is recommended for the differential identification of gram-negative enteric bacilli from clinical and non clinical samples on the basis of the fermentation of dextrose, lactose and H<sub>2</sub>S production.

**Directions**

Suspend 57.52 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Mix well and distribute into tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubes to cool in slanted position to form slopes with about 1 inch butts. Best reactions are obtained on freshly prepared medium. Do not use screw capped tubes or bottles.

**Principle And Interpretation**

Kligler Iron Agar is a combination of the lead acetate medium described by Kligler and Russels Double Sugar Agar and is used as a differentiation medium for typhoid, dysentery and allied bacilli. Fermentation of dextrose results in production of acid, which turns the indicator from red to yellow. Since there is little sugar i.e. dextrose, acid production is very limited and therefore a reoxidation of the indicator is produced on the surface of the medium, and the indicator remains red. Kligler Iron Agar, in addition to peptone, HM peptone B and yeast extract, contains lactose and glucose, which enables the differentiation of species of enteric bacilli. Bailey and Lacey substituted phenol red for Andrade indicator previously used as pH indicator. Kligler Iron Agar differentiates lactose fermenters from the nonfermenters.

**Quality Control**

Appearance: Light yellow to pink homogeneous free flowing powder

Reaction: Reaction of 5.75% w/v aqueous solution at 25°C. pH : 7.4±0.2

Gelling: Firm, comparable with 1.5% Agar gel

pH: 7.20-7.60

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

## Naugralabequipments

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