BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

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Peptic digest of animal tissue 10.00 Meat extract 3.00 Sodium chloride 5.00 Lactose 10.00 Bromo cresol purple 0.02 Final pH (at 25°C): 7.2 ± 0.2 Directions: Suspend 28.02 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely Dispense in tubes containing Durham's tubes and sterilize by autoclaving at 115°C for 20 minutes. Principle: The medium contains peptic digest of animal tissue and meat extract, which supplies the essentia nutrients for E. coli and other coliforms. Sodium chloride maintains the osmotic equilibrium of the medium Lactose upon fermentation by coliforms produce acid and is indicated by the pH indicator bromo creso purple. It turns yellow at acidic pH. QC Tests - (I)Dehydrated Medium Colour: Appearance: Homogeneous Free Flowing powder (II) Rehydrated medium pH (post autoclaving/heating): Clainty (post autoclaving/heating): Glear (III) Q.C. Test Microbiological Cultural characteristics observed after 18-24 hrs at 35- 37°C. MICROORANISM (ATCC) GROWTH ACID GAS Escherichia coli (25922) Good - luxuriant Positive reaction, yellow colour Klebsiella pneumoniae (13883) Good - luxuriant Positive reaction, Positive reaction yellow colour Salmonella typhimurium (14028) Good - luxuriant Positive reaction, Positive reaction yellow colour Negative reaction, Negative reaction yellow colour Colour change Enterococcus faecalis (29212) Fair - good Variable reaction Negative reaction Ordinates of Scherichia coli and coliform bacteria from water. Siong the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this									
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