

Use and description:

For the selective isolation, cultivation and differentiation of coliforms and enteric pathogens based on the ability to ferment lactose. Lactose-fermenting organisms appear as red to pink colonies, others as colorless or transparent colonies.

Composition per liter:

Lactose.....	12.700 g
Peptone.....	19.000 g
Agar.....	12.000 g
Beef Extract	2.000 g
Neutral red.....	0.050 g
Crystal violet.....	0.001 g
Bile Salts	0.9 g
Sodium Pyruvate	0.5 g

Final pH of the ready to use medium: 7.4 +/- 0.2

Medium preparation:

Add 46.4 grams of dehydrated culture medium to 1 liter of distilled water. Allow to soak for 10 minutes, swirl to mix then sterilise for 15 min at 121°C. Cool to 47 °C and pour into Petri dishes. Dry the surface before inoculation.

Quality specifications:

Dehydrated medium: homogeneous, light purple fine powder.

Ready to use medium: pale red slight violet tinge.

Microbiological response:

Organism	Result
<i>Escherichia coli</i> ATCC 25922	Growth
<i>Salmonella Typhimurium</i> ATCC 14028	Growth
<i>Enterococcus faecalis</i> ATCC 29212	Growth
<i>Proteus Mirabilis</i> ATCC 12453	Growth
<i>Staphylococcus Aureus</i> ATCC 25923	inhibited

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or the color has changed from the original.