

Specification

Selective differential medium for the isolation and enumeration of coliforms according to ISO 21150 standard and BAM.

Presentation

20 Prepared Plates
90 mm
with: 21 ± 2 ml

Packaging Details

1 box with 2 packs of 10 plates/pack. Single cellophane.

Shelf Life

3 months

Storage

2-14 °C

Composition

Composition (g/l):

Peptone.....	10.000
Lactose.....	10.000
Dipotassium Hydrogen phosphate.....	2.000
Yellowish Eosin	0.400
Methylene Blue.....	0.065
Agar.....	15.000

Description /Technique

A very versatile medium originally developed for the differentiation of *E.coli* and *Enterobacter aerogenes*. It has also proved very effective in the rapid identification of *Candida albicans* and demonstrates a high correlation with the coagulase test for staphylococci.

It has been repeatedly recommended for the detection, enumeration and differentiation of members of the coliform group of bacteria.

- *Escherichia coli* and *Citrobacter* form flat colonies of 2-3 mm in diameter and are dark violet in colour with a black centre which produces a distinctive green metallic sheen when light is reflected on it.
- *Enterobacter* and *Klebsiella* form convex colonies which are twice as big as the very smooth *E. coli*, have no metallic sheen and are pink in colour with a dark blue centre. Non-lactose fermenting organisms produce colourless colonies.
- *Candida albicans* colonies incubated in a CO₂ atmosphere have a very peculiar cotton-like appearance which distinguishes them from other *Candida species* that produce classical yeast like colonies.

Quality control

Physical/Chemical control

Color : Garnet

pH: 7.1 ± 0.2 at 25°C

Microbiological control

Isolation by loop spreading

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020

Aerobiosis. Incubation at 30-35°C. Reading at 18-24/ 48 h

Microbiological control according to the current version of the ISO 11133:2014/A1:2018.

Microorganism

Escherichia coli ATCC® 25922, WDCM 00013

Salmonella enterica ATCC® 13076, WDCM 00030

Escherichia coli ATCC® 8739, WDCM 00012

Salmonella typhimurium ATCC® 14028, WDCM 00031

Growth

Metallic sheen

Colourless

Metallic sheen

Colourless

Sterility Control

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

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