

## SURCHECK MCTA (DOUBLE BAG)

### INTENDED USE:

MCTA is used for the isolation of microorganisms from surfaces sanitized with quaternary ammonium compounds.

### PRINCIPLE AND INTERPRETATION:

In MCTA, the combination of casein and soy peptones renders the medium nutritious by supplying organic nitrogen, particularly amino acids and longer-chained peptides. Sodium chloride maintains the osmotic equilibrium. The addition of the neutralizing agents TL (Tween 80- Lecithin ) may inactivate a variety of disinfectants. The combination of lecithin and Tween 80 neutralizes the quaternary ammonium compounds. The Tween 80 neutralizes hexachlorophene and mercurial derivatives. Lecithin neutralizes chlorhexidine. Agar is the solidifying agent.

### COMPOSITION:

Ingredients	Gr/Liter
Pancreatic digest of casein	15 gr
Enzymatic* digest of soya bean	5 gr
Sodium chloride	5 gr
Tween 80	5 gr
Lecithin	0,7 gr
Agar	15 gr

\*\*\*Formula adjusted, standardized to suit performance parameters

pH: 7,3 ± 0.2

### PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

### TEST PROCEDURE:

Before use, agar surface should be smooth and moist, but without excessive moisture because this could be cause of confluent growth.

1. The medium should be warmed to room temperature and the surface should be dry prior to use.
2. Open the lid carefully.
3. Press the convex agar for 10 seconds on the surface to be tested with a light uniform pressure. Pressure should be the same for every sample. Do not move plate laterally.
4. Replace the lid and mark the plate with appropriate data.
5. Clean the sample area with a disinfectant in order to any remaining of the agar.
6. The plates for determination of the total aerobic bacterial count should be incubated at 30 to 35 °C for 48 to 72 hours, while the plates for determination of the total yeast and mold count should be incubated at 20 to 25 °C for 5 to 7 days

### QUALITY CONTROL:

#### 1.Sterility Control:

Incubation 2d at 30-35°C and 3d at 20-25°C: NO GROWTH

#### 2.Physical/Chemical Control

pH: 7,3 ± 0,2

Apperance: Light amber

#### 3.Microbiological Control: Incubation at 35± 2 °C;24-48 hours and 25±2 °C:5 d

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Bacillus subtilis ATCC 6633	10-100	Good	>70 %
Staphylococcus aureus ATCC 6538	10-100	Good	>70 %
Candida albicans ATCC 10231	10-100	Good	>70 %
Pseudomonas aeruginosa ATCC 9027	10-100	Good	>70 %
Aspergillus brasiliensis ATCC 16404	10-100	Good	>70 %
Escherichia coli ATCC 8739	10-100	Good	>70 %
Staphylococcus epidermidis ATCC 12228	10-100	Good	>70 %

## LIMITATIONS OF THE PROCEDURE:

MCTA is used in a variety of industrial microbiology procedures, e.g., in microbial limit testing and in water and food microbiology. Unsupplemented MCTA is used for cultivation of many less fastidious bacteria, e.g., Enterobacteriaceae, nonfermenting Gram negative rods (Pseudomonas and many others), enterococci, staphylococci, sporeforming bacteria (Bacillus and related genera), and other organisms with similar growth requirements.

The medium is not suitable for the isolation and cultivation of very fastidious bacteria, such as Neisseria or Haemophilus species, or other organisms with special nutritional requirements, and it is not an optimal medium for the isolation of fastidious strict anaerobes. Therefore, the use in clinical microbiology is limited to special tests, e.g., the differentiation of Haemophilus with X, V, and XV factors strips.

## STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2-12°C or 2-25°C. Use before expiry date on the label. Do not use beyond stated expiry date.

## DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

## PACKAGING:

**Katalog Number:** 06117

**Packaging:** Double wrap

**Content:** 10 plates/each package

## REFERENCES:

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4. Gillies R. R. (1964) J. Hyg. Camb. 62. 1-9.
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12. US Pharmacopoeia XXX, (2008)
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Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature  
Limitation



Do not reuse



Contains sufficient  
for <n> tests



Look at user manual



Manufacturer