

CATC (Citrate Azide Tween Carbonate) Agar



Medium used for the identification and determination of Enterococci.

• CONTENTS (Liter)

Casein Peptone	15.0 g
Yeast Extract	5.0 g
Potassium Dihydrogen Phosphate	5.0 g
Sodium Citrate	15.0 g
Sodium Azide	0.4 g
Tween 80	1.0 g
Sodium Carbonate	2.0 g
2,3,5-Triphenyl Tetrazoliumchloride	0.1 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 58.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

CATC (Citrate Azide Tween Carbonate) Agar is a medium used for the identification and determination of Enterococci. Casein peptone and yeast extract are the nitrogen and vitamin sources. Potassium dihydrogen phosphate is a buffering agent. Sodium citrate and sodium azide are the selective agents. Tween 80 neutralizes residual disinfectants. Sodium carbonate serves as neutralizer of toxic metabolites. 2,3,5-Triphenyl tetrazoliumchloride is a redox indicator of bacterial growth. Reduction of TTC by enterococci results in red colonies. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : slightly opalescent

Color: pinkish light amber

Incubation conditions: 36 ± 1°C / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Enterococcus faecalis</i>	29212	50-100	good	red colonies
<i>Enterococcus faecium</i>	19434	50-100	good	red colonies
<i>Escherichia coli</i>	25922	≥10 ³	inhibited	-
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Burkwall and Hartman (1964) Appl. Microbiol. 12: 18 - 23.
2. Vanderzant C. and Splittstoesser D.F., (Eds.) (1992) Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.

• PACKAGE

Cat. No : MB-C2136 CATC (Citrate Azide Tween Carbonate) Agar	500 G
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