Iso-Sensitest Broth



Medium used for susceptibility test.

CONTENTS (Liter)

Hydrolyzed Casein	11.0 g
Sodium Chloride	3.0 g
Peptones	3.0 g
Glucose	2.0 g
Soluble Starch	1.0 g
Disodium hydrogen phosphate	2.0 g
Sodium Acetate	1.0 g
Magnesium Glycerophosphate	0.2 g
Calcium Gluconate	0.1 g
Cobaltous Sulfate	0.001 g
Cupric Sulfate	0.001 g
Zine Sulfate	0.001 g
Ferrous Sulfate	0.001 g
Maganous Chloride	0.002 g
Menadione	0.001 g
Cyanocobalamin	0.001 g
L-Cysteine HCI	0.02 g
L-Tryptophan	0.02 g
Pyridoxine	0.003 g
Pantothenate	0.003 g
Nicotinamide	0.003 g
Biotin	0.0003 g
Thiamine	0.00004 g
Adenine	0.01 g
Guanine	0.01 g
Xanthine	0.01 g
Uracil	0.01 g
Final pH = 7.4 ± 0.2 at 25° C.	

PROCEDURE

Suspend 23.4 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in tubes.

INTERPRETATION

Iso-Sensitest Broth is developed specifically for antimicrobial susceptibility tests. It allows the growth of the great majority of microorganisms without further supplementation. Some mutant strains, which are totally dependent on thymine and thymidine for their growth, will, however, not grow on this medium because those components are present at very low levels (as they are the natural antagonists of trimethoprim). Care must be taken to recognize these strains.

TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 36 \pm 1°C for 18 hours. Refer appropriate references for recommended test procedure.

QUALITY CONTROL FOR USE

<u>Dehydrated medium</u>

Appearance: free-flowing, homogeneous.

Color: whitish.

Prepared medium

Appearance: clear.

Color: whitish.

Incubation conditions: $36 \pm 1^{\circ}\text{C}$ / 18 hours

Microorganism	ATCC	Inoculum CFU	Growth
Escherichia coli	25922	50-100	good
Klebsiella pneumoniae	13883	50-100	good
Pseudomonas aeruginosa	27853	50-100	good
Staphylococcus aureus	25923	50-100	good
Enterococcus faecalis	19433	50-100	good
Proteus mirabilis	25933	50-100	good

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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

REFERENCES

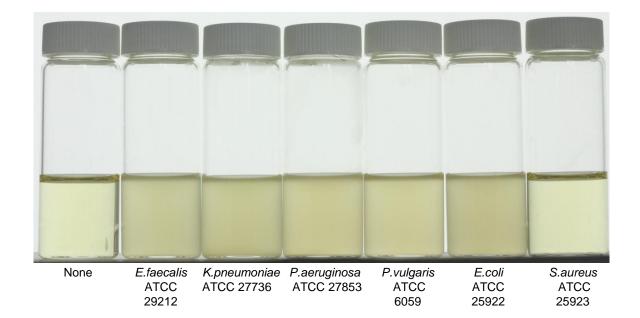
- 1. Ericsson H.M. and Sherris J.C. (1971). Acta. Pathol. Microbiol. Scand. Suppl. 217: 1-90.
- 2. Garrod, L.P., and Waterworth, P.M. (1971). J. Clin. Pathol. 24:779-789.

PACKAGE

Cat. No : MB-I0702 Iso-Sensitest Broth	500 G
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MICROBIAL CULTURE IMAGES



Incubation conditions: 36±1°C 18h