

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
Zinc Sulfate	0.001 g
Ferrous Sulfate	0.001 g
Manganous Chloride	0.002 g
Menadione	0.001 g
Cyanocobalamin	0.001 g
L-Cysteine HCl	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 $36 \pm 1^\circ\text{C}$ for 18 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

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
<i>Escherichia coli</i>	25922	50-100	good
<i>Klebsiella pneumoniae</i>	13883	50-100	good
<i>Pseudomonas aeruginosa</i>	27853	50-100	good
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Enterococcus faecalis</i>	19433	50-100	good
<i>Proteus mirabilis</i>	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



None

E. faecalis
ATCC
29212*K. pneumoniae*
ATCC 27736*P. aeruginosa*
ATCC 27853*P. vulgaris*
ATCC
6059*E. coli*
ATCC
25922*S. aureus*
ATCC
25923Incubation conditions : $36 \pm 1^\circ\text{C}$ 18h