Product Name: Test Agar, pH 6.0

Medium for the detection of antimicrobial inhibitors in meat and organ samples, using Bacillus subtilis.

CONTENTS (G/L)

Tryptone	3.45
Proteose Peptone	3.45
Sodium Chloride	5.1
Agar	13.0
Final pH = 6.0 ± 0.2 at 25°C.	

PROCEDURE

Suspend 25.0 G of powder in 1 L of distilled or deionized water. Heat until completely dissolve the powder. Sterilize by autoclave at 121°C for 15 minutes. Cool to 40-50°C in water bath. Add 1 mL/L of *Bacillus subtilis* spore suspension. Mix well. Dispense into petri dish.

INTERPRETATION

Test Agar, pH 6.0 is medium for the detection of antimicrobial inhibitors in meat and organ samples, using *Bacillus subtilis* as test organisms. Tryptone and proteose peptone provide nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

TECHNIC

Test Agar, pH 6.0 is recommended by agar diffusion procedure and EEC Four-Plate-Test. Incubate the plates at 30 \pm 1°C for 18-24 hours. After incubation measure the zone of inhibition.

Agar diffusion and EEC Four-Plate-Test procedure: Add *Bacillus subtilis* spore suspension to cooled test agar. Mix well. Dispense in petri dishes. In one plate, aseptically laid on small piece of sample at proper distance and other plate, place test discs with standard antibiotic, as control. If present, antimicrobial components in the sample, diffuse into the medium and make inhibition zone for growth free of microorganisms.

QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: cream.

<u>Prepared medium</u>

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 30 \pm 1°C / 18-24 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Inhibition zone with Penicillin 10 IU (mm)
Bacillus subtilis	6633	heavy	good	36-48



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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 are evident. Store prepared medium at 2-8°C.

REFERENCES

1. Ferrini, A. M.; Mannoni, V., Aurdi P. Combined plate microbal assay (CPMA). Food additives and Contaminants, 23(1);16-24. 2006

PACKAGE

Cat. No : MB-T2255 Test Agar, pH 6.0	500 G
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