

Reference: DSHB3144

Product:

**ANTIBIOTIC MEDIUM E (Eur. Pharm.)** 

### Also known as

MEDIUM E

### **Specification**

Antibiotic Medium E is used in the microbiological assays of Framycetin and Neomycin using the Agar Diffusion method.

#### Formula \* in q/L

1 01111010 III g/ =	
Peptone	5,00
Meat extract	
Disodium phosphate	
(anhydrous)	10,5(*1)
Agar	

Final pH 7,9 ±0,1 at 25 °C

(\*1) Equivalent to 26,9 g of disodium hydrogen phosphate dodecahydrate.

#### Directions

Add 28,5 g of powder to 1 L of water. Boil and distribute in suitable containers. Sterilise in an autoclave at 121°C for 15 minutes.

### **Description**

Antibiotic Medium E is recommended by the European Pharmacopoeia and the USP for determining antibiotic potency by microbiological assay technique, specifically for framycetin and neomycin, in a single layer or double layer. For these assays seed cultures ATCC 6633 *Bacillus subtilis* as well as NCTC 8241 *Bacillus pumilus* are recommended.

### **Technique**

The diffusion method for the assay of antibiotics is carried out in accordance with the methodology in the cuurrent pharmacopoeias of each country. Antibiotic Medium E can be used equally with impregnated paper discs, penicylinders and cut wells as the consistency of the gel is specifically adjusted to suit all of these methodologies.

## **Quality control**

Incubation temperature: 30-37°C Incubation time:  $24 \pm 3h$ 

Inoculum: Practical range 50-100 CFU (Productivity). Spiral Plate Method.

Microorganism Growth Remarks

Bacillus subtilis ATCC $^{\circ}$  6633Productivity > 0.70-Bacillus pumillus ATCC $^{\circ}$  14884Productivity > 0.70-

## References

· EUROPEAN PHARMACOPOEIA 11.0 (2023) 11th ed. §. 2.7.2 Microbiological Assay of Antibiotics. EDMH. Council of Europe. Strasbourg.

# Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

<sup>\*</sup> Adjusted and /or supplemented as required to meet performance criteria