



Reference : 02-011

Scharlau Microbiology - Technical data sheet

Product :
ANTIBIOTIC MEDIUM C (Eur. Pharm.)

Also known as

Antibiotic Medium 3 (USP); Antibiotic Assay Broth; Medium C

Specification

Antibiotic Medium C may be used in the preparation of inoculum, serial dilutions or turbidimetric antibiotic assays.

Formula * in g/L

Peptone	6.00
Yeast extract.....	3.00
Meat extract.....	1.50
Sodium chloride.....	3.50
Dextrose.....	1.00
Monopotassium phosphate.....	1.32
Dipotassium phosphate.....	3.68

Final pH 7,00±0,1 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Add 20 g of medium to 1 L of distilled water. Heat to boiling and dispense into suitable containers. Sterilize in the autoclave at 121°C for 15 minutes.

Description

Antibiotic Medium C is used in inoculum preparation of bacterial strains used in antibiotic assays. It is also used to perform assays of sodium colistimethate, framycetin sulfate, gentamicin sulfate, gramicidin, josamycin, josamycin propionate, kanamycin monosulphate, neomycin sulfate, sodium rifamycin, spiramycin, streptomycin sulfate, tylosin, tylosin tetratrate, tyrothricin and vancomycin HCl.

Technique

The turbidimetric technique for antibiotic assays must be performed according to the methodology recommended in the appropriate pharmacopoeia.

Quality control

Incubation temperature: 35-37°C

Incubation time: 24 h

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) according to Eur. Pharm.

Microorganism	Growth	Remarks
<i>Klebsiella pneumoniae</i> ATCC® 10031	Good	-
<i>Staphylococcus aureus</i> ATCC® 6538P	Good	-
<i>Enterococcus faecalis</i> ATCC® 10541	Good	-
<i>Escherichia coli</i> ATCC® 10536	Good	-

References

- ARRET, B.D., P. JOHNSON & A. KIRSCHBAUM (1971) Outline Details for Microbiological Assays of Antibiotics: Second revision. J. Pharm. Sci. 60(11):1689-1694.
- EUROPEAN PHARMACOPOEIA 10.0 (2020) 7th 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).