

ANTIBIOGRAMMA BASE AGAR

For agar-diffusion susceptibility test

Typical formula (g/l)

Peptocomplex	10.00
Peptone	10.00
Glucose	2.00
Sodium Chloride	3.00
Disodium Hydrogen Phosphate	2.00
Sodium Acetate	1.00
Adenine Sulphate	0.01
Guanine Hydrochloride	0.01
Uracil	0.01
Xanthine	0.01
Agar	12.00
Thiamine	0.02 mg

Directions

Suspend 40 g in 1000 ml of cold distilled water, heat to boiling and sterilise by autoclaving at 121°C for 15 minutes. For blood agar plates cool to about 50°C and aseptically add 5-7 % (v/v) of sterile defibrinated horse blood. Mix well and pour into sterile Petri dishes.

Final pH 7.4 ± 0.2

Description

Antibiogramma Base Agar is basal medium studied for blood agar plates preparation for diagnostic purposes but it is mainly used for testing bacterial sensitivity to antibiotics and chemotherapeutic agents by the agar-diffusion technique. The composition of the medium is that recommended by the Bacteriology Committee of the Association of Clinical Pathologists of Great Britain, and fulfils the relevant criteria of the World Health Organisation. Adenine, guanine, uracil and xanthine improve the performance of the medium for antimicrobial disc susceptibility test. In Antibiogramma Base Agar the reactive levels of thymidine and thymine are reduced and, in the presence of lysed horse blood, the levels of both compounds are further decreased. This reduction avoids the antagonism of trimethoprim and sulphonamide in the sensitivity test of enterococci.

Details of the technique to carry out the susceptibility test by agar-diffusion method are described in the technical sheet of Mueller Hinton Agar II.

User quality assurance (37°C-24 h)

S.aureus ATCC 25923

E.coli ATCC 25922

P.aeruginosa ATCC 27853

E.faecalis ATCC 33186

Storage

Dehydrated medium: 10-30°C

User prepared plates: 1 month at 2-8°C

References

- Ericsson, H.M. & Sherris, J.C. (1971) Acta Path. Micr., Scand., section B suppl. n° 217.
- OMS (1961) - Standardization de la méthodologie des tests de sensibilité bactérienne. Org. Mond, Santé Sér. Rapp. Techn., 210.
- Report (1965) - Report on antibiotic sensitivity test trial, organized by the Bacteriology Committee of the Association of Clinical Pathologists, J. Clin. Path., 18, 1-5.

Packaging

4010492 Antibiogramma Base Agar, 500g (12.5 l)