



## ROTI® Antibiotic Discs Amphotericin B (AP)

For qualitative antimicrobial susceptibility testing (AST) of fungal cultures  
1454

### Appearance:

ROTI® Antibiotic Discs are provided in cartridges of 50 discs each.

Amphotericin B ..... 100 Units/Disc

Disc diameter..... 6 mm

Imprint (center of both sides) ..... AP 100

For research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* diagnostics.

### STORAGE CONDITIONS

Store at - 20 °C under dry conditions and protected from light immediately upon receipt.

### APPLICATION

#### 1. Preparation of Inoculum

The inoculum is prepared by picking five distinct colonies from 24 hours old culture with approximately  $\varnothing$ 1 mm grown on Sabouraud Dextrose Agar (Art. No. X932) and incubated at  $35 \pm 2$  °C. The colonies are suspended in 5 ml of sterile 0.85 % saline. Vortex the resulting suspension and adjust the turbidity to yield  $1 \times 10^6$  -  $5 \times 10^6$  cfu/ml (i.acc. with 0.5 McFarland standard (Art. No. 1440 or 1307)).

#### 2. Test Procedure (based on Bauer-Kirby method)

Prepare plates with Muller Hinton Agar (Art. No. X926) + 2 % glucose (e.g. Art. No. 6887) + 0.5 µg/ml methylene blue (Art. No. A514). The medium in the plates should be sterile and have a depth of about 4 mm.

Dip a sterile non-toxic cotton swab on a wooden applicator (e.g. ROTILABO®-cotton buds Art. No. EH12.1) into the standardised inoculum and rotate the soaked swab firmly against the upper inside wall of the tube to gently remove excessing fluid. Streak the entire agar surface of the plate with the swab three times evenly, e.g. by turning the plate at 60 ° angle between each streaking or using a petri dish revolving table (e.g. Art. No. N962.1) for guiding the plate evenly. Allow the inoculum to dry for 5-15 minutes with closed lid. The later growth on the plate should be semi-confluent.

Apply the discs using aseptic technique with sterile tweezers or the Antibiotic Disc Dispenser (Art. No. 1505.1).

The centers of the discs should be at least 24 mm apart. Invert the plates and place in an incubator set to  $35 \pm 2$  °C within 15 minutes after the discs are applied. It is recommended to prepare and incubate a plate with a known reference strain with known zone size for this antibiotic in parallel as a control.

Examine each plate after 20-24 hours of incubation. If the plate was satisfactorily streaked, the resulting zones of inhibition will be uniformly circular and there will be a semi confluent lawn of growth. Read at 48 hours only when insufficient growth is observed after 24 hours incubation. The diameter of each zone is measured e.g. using a calibrated pocket slide rule (Art. No. HCN3.1) and assessed according to valid databases.

### MICROBIOLOGICAL TEST

Average diameter of zone of inhibition observed on Muller Hinton Agar +2 % glucose +0,5 µg/ml methylene blue after 24-48 hours incubation at 35-37 °C for standard cultures\*.

Microorganisms	zone of diameter [mm]
<i>Candida albicans</i> ATCC 90028	10 - 17
<i>Candida parapsilosis</i> ATCC 22019	11 - 20
<i>Candida tropicalis</i> ATCC 750	8 - 12
<i>Candida krusei</i> ATCC 6528	9 - 14
<i>Candida albicans</i> ATCC 10231	10 - 18
<i>Saccharomyces cerevisiae</i> ATCC 9763	11 - 18

\*Strains recommended by CLSI (Clinical Laboratory Standards Institute).

### ROTI® Antibiotic Discs Amphotericin B (AP)

1 x 50 discs

1454.2

5 x 50 discs

1454.1

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The company is a limited partnership with headquarters in Karlsruhe, reg. court Mannheim HRA 100055. Roth Chemie GmbH, with headquarters in Karlsruhe, reg. court Mannheim HRB 100428, is the personally liable partner. Managing Director: André Houdelet. Sales tax identification number: DE 143621073.

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