

ANTIMYCOTIC SUSCEPTIBILITY DISCS 50 ps Code: DD 601 - DD 613
100 ps DD 6011-DD 6131

Information for Use

DD 601 NYSTATIN (NYS) 50 μ g	DD 602 AMPHOTERICIN B (AMB) 50 μ g
DD 603 PIMARICIN (PIM) 50 μ g	DD 604 5-FLUOROCYTOSIN (5FC) 5 μ g
DD 605 ITRACONAZOLE (ITR) 30 μ g	DD 606 KETOCONAZOLE (KET) 30 μ g
DD 607 CLOTRIMAZOLE (KLO) 30 μ g	DD 608 MICONAZOLE (MIK) 30 μ g
DD 609 FLUCONAZOLE (FLU) 25 μ g	DD 610 ECONAZOLE (EKO) 30 μ g
DD 611 BIFONAZOLE (BIF) 30 μ g	DD 612 CIKLOPIROXOLAMIN (CIK) 30 μ g
DD 613 VORICONAZOLE (VOR) 1 μ g	

Purpose and Usage:

Antimycotic susceptibility discs are used for the determination of the susceptibility of microscopic fungi to antimycotic agents *in vitro*. It is possible to get the information about actual susceptibility of the tested fungal isolate by a simple diffusion method after 18-24 hrs already. The results of the antimycotic antibiogram make it possible to start a rational treatment of the mycotic infection.

Technique:

Prepare a suspension (degree No. 0.5 of McFarland turbidity scale) of the tested strain in saline and flood the surface of an agar plate with this suspension. After suctioning off the remaining liquid and drying the plate (about 15 min. at room temperature) put antimycotic discs on the surface of the plate using aseptic technique. Incubate 18-24 hrs at 37°C.

Evaluation: After the incubation, observe the presence and eventually the size of the inhibition zones around the discs.

A clear, sharply bordered inhibition zone usually of a small diameter (AMB and PIM > 10 mm, NYS > 15 mm) is characteristic for polyene antibiotics and CIK applied to *in vitro* susceptible strains.

An inhibition zone with fuzzy margins and visible growth of the tested strain inside the zone is characteristic for azoles (KLO, EKO, BIF, KET, ITR, FLU and VOR) and 5FC and CIK even *in vitro* susceptible strains. The size of the inhibition zone is as follows:

5FC, KLO, MIK, EKO, KET > 20 mm

BIF, ITR, CIK > 10 mm

FLU > 15 mm, VOR > 17 mm

Note: We recommend modified Sabouraud glucose agar for testing (2% glucose, 1% peptone, 1.5% agar, pH not adjusted). Agar with casitone can be used for azole chemotherapeutics - but not for 5FC - (1.9% Casitone Difco, 1% Yeast Extract Difco, 2% glucose, 1% sodium citrate, 0.1% sodium hydrogen phosphate, 2.5% agar, pH 6.6).

Warning:

1. ANTIMYCOTIC SUSCEPTIBILITY DISCS are designed for laboratory use only.
2. Discs should be stored in the dark place at 2 – 8°C and used by the expiration date stated on the label.
3. Provided the damage of primary IVD packaging, do NOT use the preparation and please contact the manufacturer.
4. Dispose unused IVD preparation and empty packaging according to Act no 185/2001 Coll., on Waste, according to following categories: 15 01 01 – paper packaging, 15 01 02 – plastic packaging, 15 01 07 – glass packaging, aluminium – 17 04 02, chemicals containing dangerous substances – 18 01 06. Dispose residue and unused IVD preparation in category 18 01 09 – other unusable pharmaceuticals. Dispose the waste, requiring special requirements for collection and removal with respect to prevention of infection, in category 18 01 03.