

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

Information for Use

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

Purpose and Use:

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 surrounding 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 and FLU) and 5FC 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: It is recommended to use 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). or ready to use media Antimycotic sensitivity test agar produced by HI-Media.

Warning:

1. ANTIMYCOTIC SUSCEPTIBILITY DISCS are available in 50 pcs or 100 pcs packages. The products are designed for laboratory use *in vitro* only.
2. Discs should be stored in a dark place at +2 - 8°C and should not be used beyond the expiration date shown on the label.
3. Short-term exceeding of temperature range during the transport up to 5 days does NOT have impact on quality and safety of the product.
4. Provided the damage of primary IVD packaging, do NOT use the product and contact the manufacturer.
5. Dispose unused IVD preparation and empty packaging according to Act no 541/2020 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.