

MASTDISCS® ID

Metronidazole Discs

Sulphathiazole Discs

D46/D46C & D47/D47C

Intended use

For the presumptive identification of *Gardnerella vaginalis*.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

100 discs in a vial (D46/D47) or a pack of 5 cartridges (D46C/D47C), each cartridge containing 50 discs.

Formulation*

Disc Code	Material:	Content per disc:
MZID	Metronidazole	50µg
STAID	Sulphathiazole	1000µg

Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening.

Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a McFarland 0.5 opacity standard. Test organisms can be taken from a blood agar plate that has been made selective for *Gardnerella vaginalis* by using a MAST® SELECTATAB (MS15).
- Using a sterile swab, spread the suspension uniformly across the surface of an agar plate (e.g. MAST® DST agar DM215D or MAST® Columbia agar DM115D supplemented with 5 to 7% sterile defibrinated horse or sheep blood).
- Using a sterile needle or forceps, place one Metronidazole Disc and one Sulphathiazole Disc well apart on to the inoculated medium.
- Incubate at 35 to 37°C for 18 to 24 hours in 5% CO₂.
- Measure and record the diameter of any zones of inhibition that are observed.

Interpretation of results

Sensitive - A clearly defined zone of inhibition around the disc of any size.

Resistant - No zone of inhibition around the disc.

Organism	Test	
	MZID	STAID
<i>Gardnerella vaginalis</i>	S	R
Bifidobacteria and <i>Gardnerella vaginalis</i> like organisms	S	S
Streptococci	R	R
Lactobacilli	R	S
Obligate anaerobes	S	-

S = Sensitive

R = Resistant

Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result	
	MZID	STAID
<i>Gardnerella vaginalis</i> ATCC® 14018	S	R
<i>Lactobacillus acidophilus</i> ATCC® 314	R	S

Limitations

It is recommended that further biochemical and/or serological tests are performed on colonies from pure culture to confirm identification.

References

Bibliography available on request.