

## MASTDISCS® ID SPS (Sodium Polyanethol Sulphonate) Identification Discs.

### D55/D55C

#### Intended use

For the presumptive identification of *Peptostreptococcus anaerobius*.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents

100 discs in a vial (D55) or a pack of 5 cartridges (D55C), each cartridge containing 50 discs.

#### Formulation\*

Material:	Content per disc:
Sodium Polyanethol Sulphonate	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

Before commencing the test, organisms should be confirmed to be Gram Positive Anaerobic Cocci (GPAC) by Gram stain and metronidazole sensitivity.

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a McFarland 0.5 opacity standard.
- Using a sterile swab, spread the suspension uniformly across the surface of an agar plate containing MAST® Wilkins Chalgren Agar (DM235D).
- Using a sterile needle or forceps, place a SPS disc onto the inoculated medium.
- Incubate at 35 to 37°C for 48 hours in anaerobic conditions.
- 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 greater than or equal to 12mm.

Resistant - A clearly defined zone of inhibition around the disc less than 12mm.

#### 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
<i>Peptostreptococcus anaerobius</i> ATCC® 27337	Sensitive
<i>Peptostreptococcus micros</i> ATCC® 33270	Resistant
<i>Bacteroides fragilis</i> ATCC® 25285	Resistant

#### Limitations

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

Most strains of *P. micros* and *P. prevotii* produce small zones of inhibition, usually of less than 10mm. Occasional isolates can produce zones larger than 12mm, which will be interpreted as sensitive.

#### References

Bibliography available on request.