

## MASTRING® MAST® /D STAPHYLOCOCCUS RING

### MID/STAPH

#### Intended use

For the presumptive identification of coagulase negative staphylococci.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents

50 MAST® /D STAPHYLOCOCCUS RINGS

#### Formulation\*

Code	Test	Content
DES	Desferrioxamine	1000µg
NO	Novobiocin	5µg
PNP	para-Nitro Phenol Phosphate	appropriate concentration

#### 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.
- Using a sterile swab, spread the suspension uniformly across the surface of a nutrient agar plate e.g. MAST® Columbia Agar (DM115D).
- Using a sterile needle or forceps, place a MAST® /D STAPHYLOCOCCUS RING on to the inoculated medium.
- Incubate aerobically for 18 to 24 hours at 35 to 37°C.
- Measure and record the diameter of any zones of inhibition or colour that are observed.

#### Interpretation of results

Desferrioxamine

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

Resistant - No zone of inhibition around the disc.

Novobiocin

Sensitive - A clearly defined zone of inhibition around the disc, of 17mm or more.

Resistant - A clearly defined zone of inhibition of less than or equal to 16mm.

para-Nitro Phenol Phosphate

Positive - A yellow (non-inhibitory) zone around the disc.

Negative- No yellow zone around the disc.

Strains are characterised according to the following table:

Organism	Test		
	DES	NO	PNP
<i>S. epidermidis</i>	S	S	+
<i>S. hominis</i>	S	S	-
<i>S. haemolyticus</i> , <i>S. capitis</i> , <i>S. simulans</i> , <i>S. warneri</i> , <i>S. caseolyticus</i> , <i>S. auricularis</i> , <i>S. saccharolyticus</i> , <i>S. simians</i>	R	S	-
<i>S. simulans</i> , <i>S. saccharolyticus</i> , <i>S. carnosus</i> , <i>S. caprae</i> , <i>S. lugdunensis</i> , <i>S. schleiferi</i>	R	S	+
<i>S. saprophyticus</i> , <i>S. cohnii</i> , <i>S. xylosum</i> , <i>S. lentus</i> , <i>S. ureolyticus</i> , <i>S. kloosii</i>	R	R	-
<i>S. lentus</i> , <i>S. xylosum</i> , <i>S. gallinarum</i> , <i>S. arietiae</i> , <i>S. equorum</i> , <i>S. kloosii</i> , <i>S. sciuri</i>	R	R	+

S = Sensitive + = Positive R = Resistant - = Negative

#### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a sensitive/positive reaction and at least one organism to demonstrate a resistant/ negative reaction for each test. 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>Staphylococcus epidermidis</i> ATCC® 14990	Growth and correct profile
<i>Staphylococcus saprophyticus</i> ATCC® 15305	Growth and correct profile

#### Limitations

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

#### References

Bibliography available on request.