

Nalidixic Acid MAST® SELECTAVIAL

SV9 Series

Intended Use

For the selective isolation of non-sporing anaerobes.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
Nalidixic Acid	10mg/L

Storage and shelf life

Store unopened at 2 to 8°C until expiry date shown on pack label. Once reconstituted use immediately.

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

1. Sterilise appropriate volume of MAST® Blood Agar Base Special (DM101D), Columbia Agar (DM115D) or Brucella Medium (DM107D), cool to 50 to 55°C and hold in a water bath at this temperature. To make Nalidixic Acid Tween agar, add Tween 80 to give a final concentration of 0.1% (v/v) prior to sterilisation.
2. Reconstitute the contents of one vial using the diluent specified on the pack label. The best method is to aseptically add the diluent using a sterile needle and syringe. Draw the diluent into the syringe and after removing the plastic cap of the vial, inject through the rubber-stopper of the vial. The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.
3. Add the antibiotic solution to appropriate amount of media and discard the needle into an approved container.
4. Mix gently but thoroughly to evenly distribute the selective agents.
5. Supplement the medium with 5 to 7% lysed defibrinated horse blood. Other growth factors such as haemin and menadione may also be added as required. Mix well and pour culture plates of normal thickness (15 to 20 mL per plate). Allow to set.

6. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
7. Inoculated plates should be incubated at 35 to 37°C in an anaerobic jar or cabinet. Examine the plates after 48 hours incubation but continue incubation for up to 5 days.

Interpretation of results

Nalidixic Acid Tween agar with added haemin and menadione is particularly suitable for allowing the growth of non-sporing anaerobes whilst suppressing the growth of most Gram negative bacteria.

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>Staphylococcus aureus</i> ATCC® 25923	Growth
<i>Proteus mirabilis</i> ATCC® 43071	No growth
<i>Escherichia coli</i> ATCC® 10536	No growth
<i>Enterococcus faecalis</i> ATCC® 29212	Growth
<i>Bacteroides fragilis</i> ATCC® 25285	Growth

References

Bibliography available on request.