

P.N.P.G. (para-nitrophenyl glycerol) MAST® SELECTAVIAL

SV2 Series

Intended Use

Culture medium supplements to inhibit the swarming of *Proteus* spp.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
P.N.P.G.	50mg/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 the appropriate volume of MAST® isolation or susceptibility test medium to be supplemented, cool to 50 to 55°C and hold at this temperature.
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, inject through the rubber stopper of the vial. The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.
3. Add the supplement to the volume of medium specified on the pack label and discard the needle into an approved container. Alternatively, as P.N.P.G. is heat stable, the MAST® SELECTAVIAL may be reconstituted and added to the medium before sterilisation.
4. Mix well, pour culture plates of appropriate thickness and allow to set.
5. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.

6. For isolation procedures requiring up to 48 hour incubation periods a concentration of 100mg/litre P.N.P.G. is recommended. For periods of 48 to 72 hours, concentrations of 150 to 200mg/L P.N.P.G. may be required to prevent swarming. These concentrations can be achieved by varying the volume of medium to which the MAST® SELECTAVIAL is added or by using more than one MAST® SELECTAVIAL.
7. For susceptibility testing a PNPg concentration of 50mg/litre should not be exceeded.
8. Plates should be incubated and examined according to the procedure being followed.

Interpretation of results

The swarming ability of *Proteus* spp. on solid culture media will be strongly inhibited. Other results will be unaffected.

N.B. P.N.P.G. may alter the MIC result of certain antibiotic/organism combinations (see MAST® Technical Note January 1992).

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>Proteus mirabilis</i> ATCC® 29906	Growth No Swarming
<i>Escherichia coli</i> ATCC® 25922	Normal Growth
<i>Staphylococcus aureus</i> ATCC® 25923	Normal Growth

References

Bibliography available on request.