

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

MS2 Series

Intended Use

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

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

25 (small) or 10 (large) MAST® SELECTATAB.
See pack label.

Formulation

Material:	Concentration in medium:
P.N.P.G.	50 mg/L

Storage and shelf life

Store unopened at 2 to 8°C until the expiry date shown on the pack label. Once opened, store MAST® SELECTATAB in a capped vial with the original packaging at 2 to 8°C until the expiry date shown on the pack label.

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. Label Petri dishes using self-adhesive labels provided.
2. 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.
3. Using sterile forceps add one MAST® SELECTATAB to the volume of medium specified on the pack label and label the bottle. Allow to stand for several minutes at 50 to 55°C until the MAST® SELECTATAB has broken up.
4. After the MAST® SELECTATAB has broken up, swirl the bottle 3 to 4 times and invert it to complete dispersal. Alternatively, as P.N.P.G. is heat stable, the MAST® SELECTATAB may be added to the medium before sterilisation.
5. Other supplements e.g. blood may be added to the medium as required.
6. Mix well, pour culture plates of appropriate thickness and allow to set.
7. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.

8. 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 mg to 200 mg/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® SELECTATAB is added or by using more than one MAST® SELECTATAB.
N.B. Do not use more than 4 tablets per 100 mL medium.
9. For susceptibility testing a PNPG concentration of 50 mg/L should not be exceeded.
10. 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.