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Listeria (Oxford) MAST® SELECTAVIAL

SV33 Series

Intended Use

For the selective isolation of *Listeria* spp. from food and clinical specimens.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

10 vials of supplement.

Formulation

Material:	Concentration in medium:
Natamycin	25 mg/L
Colistin sulphate	20 mg/L
Acriflavine	5 mg/L
Cefotetan	2 mg/L
Fosfomycin	10 mg/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® Listeria Selective Agar Base (Oxford) (DM256D), 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 The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.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 antibiotic supplement to the volume of medium specified on the pack label and discard the needle into an approved container.
4. Mix gently but thoroughly to evenly distribute the selective agents. Pour culture plates (15 to 20 mL per plate) 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 direct plating of sample material onto this medium, samples (1g or 1 mL) should first be homogenised in 10 mL 0.1% MAST® Peptone Water (DM185D), then subcultured onto Listeria Selective Agar plates.
7. Plates are then incubated at 30°C for 48 hours and examined at 24 and 48 hours for typical colonies of *Listeria* spp.

Interpretation of results

Most *L. monocytogenes* strains and other *Listeria* spp. form black colonies approximately 1 mm in diameter that are surrounded by black halos, after 24 hours. After 48 hours, these colonies typically become 2 to 3 mm in diameter, remaining black with a black halo, but develop a sunken centre. This characteristic blackening is caused by the aesculin positive reaction exhibited by *Listeria* spp.

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>Escherichia coli</i> ATCC® 25922	Negative
<i>Listeria ivanovii</i> ATCC® 19119	Positive
<i>Listeria monocytogenes</i> ATCC® 19114	Positive

References

Bibliography available on request.