

Cefixime Tellurite (CT) MAST® SELECTAVIAL

SV48 Series

Intended use

For use in combination with Sorbitol MacConkey Agar for the selective isolation of Verocytotoxigenic *Escherichia coli* O157.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents

10 vials of MAST® SELECTAVIAL.

Formulation

Material:	Concentration in medium:
Cefixime	0.05 mg/L
Potassium tellurite	2.5 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® Sorbitol MacConkey Agar (DM491D), 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 The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.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.

Faeces samples

Emulsify 1 g of faeces sample in 10 mL of Ringers solution and inoculate plates of CT-SMAC and MacConkey No. 3 Agar (DM143D). Samples should be taken within 2 days of the onset of diarrhoea to ensure maximum recovery of the organism.

Food samples

Prepare a 10⁻¹ homogenate of the food sample and enrich according to a recommended method. After enrichment subculture onto CT-SMAC.

Interpretation of results

Incubate all plates at 37°C for 24 hours and examine for small, round, smooth NSF (non-sorbitol fermenting) colonies. Plates should not be incubated for longer than 24 hours before reading. Suspect colonies may have their identity confirmed by slide agglutination against MAST® ASSURE *E. coli* O157 antiserum (M12030). Positive cultures should be sent to a reference laboratory for confirmation of toxin production and serotype.

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® 700728	Positive
<i>Escherichia coli</i> ATCC® 25922	Negative

References

Bibliography available on request.