

## Brucella MAST® SELECTAVIAL

### SV38 Series

#### Intended Use

For the selective isolation of *Brucella* spp.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents

10 vials of MAST® SELECTAVIAL.

#### Formulation

Material:	Concentration in medium:
Polymyxin B	5,000 iu/L
Bacitracin	25,000 iu/L
Natamycin	25 mg/L
Nalidixic Acid	5 mg/L
Nystatin	100,000 iu/L
Vancomycin	20 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® Brucella medium (DM107D), 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 The lyophilised supplement will rapidly dissolve and may be withdrawn into the syringe.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.

5. Supplement with 5% inactivated horse serum (to inactivate hold at 56°C for 30 minutes). Pour culture plates (15 to 20 mL per plate) and 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. Selective plates may be used for direct culture of *Brucella* spp. from milk and other samples. The plates should be incubated at 35 to 37°C in 10 to 20% (v/v) carbon dioxide and examined every two days for ten days.

#### Interpretation of results

Colonies appear on the agar surface after 3 days of incubation and reach 1.5 to 2.5 mm in diameter. Colonies are entire with a smooth glistening surface.

#### 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>Brucella abortus</i> * ATCC® 4315	Growth
<i>Candida krusei</i> ATCC® 6258	No growth
<i>Enterococcus faecalis</i> ATCC® 29212	No growth
<i>Proteus mirabilis</i> ATCC® 29906	No growth
<i>Staphylococcus aureus</i> ATCC® 25923	No growth

\* *Brucella* species are Class III Pathogens. All manipulations must be confined to a protective cabinet in accordance with safety guidelines.

#### References

Bibliography available on request.