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Yersinia Agar Base

DM252

Intended Use
For the selective isolation and culture of *Yersinia enterocolitica*.

Contents
See pack label.

Formulation*

Material:	Concentration in medium:
Peptone mixture	20.0g/litre
Yeast extract	2.0g/litre
Mannitol	20.0g/litre
Sodium pyruvate	2.0g/litre
Sodium chloride	1.0g/litre
Magnesium sulphate	0.0056g/litre
Neutral red	0.03g/litre
Sodium desoxycholate	0.5g/litre
Crystal violet	0.001g/litre
Agar	12.0g/litre
Final pH: 7.4 ± 0.2	

Storage and shelf life
All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

Precautions
For *in vitro* diagnostic use only. Observe approved hazard 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 (available on request or via MAST® website).

Materials required but not provided
Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure
1. Refer to pack label for quantities and volumes required. Prepare MAST® Yersinia Agar Base (DM252D) by suspending the powder in distilled or deionised water. For sachet packs, dissolve the entire contents of the sachet in the volume shown on the label.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Cool to 50°C and to make the medium selective add Yersinia MAST® SELECTATAB (MS19).
4. Mix thoroughly, pour culture plates (15 to 20ml 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. Food and clinical specimens can be inoculated directly onto the medium.
7. Incubate plates aerobically for 18 to 24 hours at 35 to 37°C.

Interpretation of results
After incubation record growth of organisms. A typical colony of *Y. enterocolitica* will produce a dark red "bullseye" surrounded by a transparent border. Colony size and the ratio of the border to centre diameter will vary considerably amongst serotypes.

Quality control
Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Growth	Appearance
Escherichia coli ATCC® 25922	Significant or complete inhibition	-
Enterococcus faecalis ATCC® 29212	Significant or complete inhibition	-
Pseudomonas aeruginosa ATCC® 27853	Significant or complete inhibition	-
Yersinia enterocolitica ATCC® 9610	Good	Dark red "bullseye" surrounded by transparent border

References
Bibliography available on request.

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*Formulation may change to meet performance criteria