

MAST® Culture Media and Supplements

Technical Information Sheet

Product Code DM 251



Preston Campylobacter Agar Base

For the isolation of campylobacters from faeces.

1. Description

MAST Preston Campylobacter Agar Base (DM251) is designed for use with MAST Camp Selectatab (Preston Blood Free) MS18 or Selectavial SV18 to prepare the selective medium recommended by Bolton.^{1,2} The medium was formulated for the isolation of *Campylobacter jejuni* and *C.coli* as well as NARTC (Naladixic Acid

Resistant Thermophilic Campylobacters) from human faecal specimens. MAST Preston Campylobacter Agar Base (DM251) has been developed for use without blood (whole or lysed) and includes charcoal, ferrous sulphate and sodium pyruvate which have been found to enhance the growth and aerotolerance of *Campylobacter* spp.

2. Technical Formula*

Formula	grams per litre
Selected peptone mixture	26.5
Yeast extract	2.0
D-glucose	0.5
Magnesium sulphate	0.045
Ferrous sulphate	0.25
Sodium pyruvate	0.25
Sodium desoxycholate	0.25
Sodium chloride	3.75
Charcoal	6.0
Agar	12.0
pH approx.7.4	

3. Directions

1. Suspend by swirling 51.55g of powder in 1 litre or the contents of the sachet in the stated volume of distilled or deionised water. Boil gently until completely dissolved.
2. Autoclave at 121°C (15p.s.i.) for 15 minutes.
3. Mix well before pouring.
4. The medium can be made selective by the use of MAST Campylobacter Selectatab/Selectavial (Preston Blood Free) MS18/SV18.

4. In Use

Specimens can be inoculated directly on to plates of the supplemented medium and for maximum recovery of campylobacters the plates should be incubated in a 10% CO₂ atmosphere at 42°C for 48 hours, although colonies of campylobacters may be visible after 24 hours.

Campylobacter jejuni produce grey, moist, flat, spreading colonies after 42 hours at 42°C. *Campylobacter coli* tend to be creamy-grey, moist, slightly raised, discrete colonies.

5. References

1. Bolton FJ, Hutchinson DN, Coates D. *J Clin Microbiol.* 1984; **19**: 169-171.
2. Bolton FJ, Coates D. *J Appl Bact.* 1983; **54**: 115-125.
3. Hutchinson DN, Bolton FJ. *J Clin Pathol.* 1984; **37**: No. 8, 956-957.



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