

MAST® Culture Media and Supplements

Technical Information Sheet

Product Code DM 225



Tryptone Soy Agar

A general purpose isolation medium not based on meat products.

1. Description

Leifson¹ produced several peptones from casein, and found that pancreatic digests gave a peptone equivalent to other peptones prepared from pure proteins. Brewer² found from studies of various vegetable extracts that soy peptone was the most satisfactory.

Combining the two peptones gives a medium supporting the growth of a wide variety of aerobic and anaerobic micro-organisms, with or without added blood, giving typical colonies and clear haemolytic reactions.

2. Technical Formula*

Formula	grams per litre
Casein hydrolysate, enzymic	15.0
Agar	12.0
Soy peptone	5.0
Sodium chloride	5.0
pH approx.7.1	

4. Directions

1. Suspend 37g of powder in 1 litre or the contents of the sachet, with agitation, in the stated volume of distilled or deionised water.
2. Autoclave at 121°C (15p.s.i.) for 15 minutes.
3. Thoroughly mix before pouring

3. In Use

"Blood Agar"

Cool to about 45-50°C and add aseptically 5- 10% sterile defibrinated animal blood. Mix gently and pour.

"Chocolate Agar"

Add 5-10% sterile defibrinated animal blood to the medium at 75°C, mix gently and maintain at this temperature for 10 minutes. Pour plates. Alternatively heated blood plates may be prepared by keeping blood plates at 55°C for 1-2 hours.

5. References

1. Leifson E. *Bull Johns Hopkins Hosp.* 1943; **72**: 179-199
2. Brewer JH. *J Bacteriol.* 1943; **46**: 395-397





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*Formulation may be modified to meet performance criteria

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