## **MAST<sup>®</sup> Culture Media and Supplements**

**Technical Information Sheet** 

Product Code DM 140

# MacConkey Agar (without salt)

A selective medium for the isolation and identification of enteric bacteria.

### 1. Description

MAST MacConkey Agar without salt is a selective and differential identification medium. It is used for the isolation of enteric bacteria from faeces and is used in water testing. Cultivated organisms are differentiated on the basis of their lactose fermentation, which is demonstrated by pink colonies and non-lactose fermentation, by white or colourless colonies. A highly purified

### 2. Directions

1. Suspend by swirling 44.5g of powder in 1 litre or the contents of the sachet in the stated volume of distilled or deionised water.

2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.

3. Mix well before pouring.

3.	Typical	Formula*
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most Proteus spp.

Formula	grams per litre		
Selected peptone	18.0		
mixture			
Lactose	10.0		
Bile salts (RM25)	0.5		
Neutral red	0.05		
Agar	16.0		
pH approx.7.3			

and carefully selected grade of bile salts is

used to give good inhibition of nonenteric

bacteria and excellent survival of enteric

organisms. The medium will support the

growth of most staphylococci. Colour

differentiation is good, and enterococci

stand out clearly. The absence of salt from

the medium suppresses the swarming of



#### 4. In Use

Colony characteristics after 18 hours incubation.

Species	Colony Colour	Colony Nature		
Lactose fermenting organisms				
E.coli	Pink	Non mucoid translucent		
Kl.pneumoniae	Pink	Mucoid translucent		
Strept.faecalis	Megenta	Small		
Staphylococci	Opaque Pink	Small		
Late lactose fermenting organisms				
Sh.sonnei	Colourless or pale pink. Turning pink after 40 hours incubation	Translucent		
Non-lactose fermenting organisms				
Salmonellae	Colourless or pale	Translucent		
Shigellae e.g. Sh.flexneri	Colourless or pale	Translucent		

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