



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhou Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China
Tel: +86-20-32078333-8654 FAX: +86-20-32078333-8803
E-mail: hugochiang@163.com

HCM045 Mannitol Salt Agar

Usages:

For selective isolation and culture of *Staphylococcus aureus*.

Principle:

Peptone and beef extract powder provides carbon, nitrogen, vitamins and minerals; D- mannitol to fermentable sugars; higher levels of sodium chloride to provide a higher osmotic pressure, suppress most non-staphylococcal microorganisms ; phenolsulfonphthalein as pH indicator; agar is medium coagulant. Typical pathogenic staphylococci (coagulase positive) D- mannitol produce acid fermentation and produce yellow colonies with a yellow halo, typically non-pathogenic *Staphylococcus unfermented* D- mannitol to form red colonies.

Formulation (per liter) :

Pancreatic digest of casein 5.0g
Pancreatic digest of animal tissue 5.0g
Beef Extract 1.0g
Sodium Chloride 75.0g
Mannitol 10.0g
Phenol Red 0.025g
Agar 15.0g
Final PH 7.4 ± 0.2

How to use:

- 1.Suspend 111g in 1L of distilled water , stirring heated to boiling to completely dissolve ,autoclave at 121°C for 15 minutes.
- 2.Diluted and treated samples.

Quality control:

Item	The name and number of strain	Growth	Colony Color
1	<i>Staphylococcus aureus</i> CMCC (B) 26003	Good	Golden yellow
2	<i>Staphylococcus epidermidis</i> CMCC (B) 26069	Good	Red
3	<i>Escherichia coli</i> CMCC (B) 44102	Inhibition	--

Storage: Keep container tightly closed, store in a cool, dry place, away from bright light. Storage period of 3 years.



Guangdong Huankai Microbial Sci. & Tech.Co.,Ltd.

广东环凯微生物科技有限公司

Add: No.788,Shenzhou Road,Guangzhou Science City,
Guangzhou,Guangdong Province,China
Tel: +86-20-32078333-8654 FAX: +86-20-32078333-8803
E-mail: hugochiang@163.com

Specifications: 500g/bottle

Reference:

1. "People's Republic of China Pharmacopoeia" 2010 edition, Appendix XI J microbial limits.
2. ISO 22718-2006 Cosmetics ---- Microbiology ----- Detection of Staphylococcus