

MacConkey Agar No. 2 CE (NCM2024)

Intended Use

MacConkey Agar No.2 is a modification of MacConkey Agar which contains bile salts No. 2 for the recognition of Enterococci.

Description

This agar especially useful when looking for Enterococci in the presence of coliforms and non-lactose fermenters from water, sewage and food products. Enterococci are frequently sought as an index of fecal pollution and appear on this medium as small, intensely colored red-purple colonies. Non-lactose fermenters appear colorless, whilst bile tolerant Gram-positive organisms, such as staphylococci and non-fecal streptococci, are completely inhibited.

Typical Formulation

Peptone	20.0 g/L
Lactose	10.0 g/L
Bile Salts No. 2	1.5 g/L
Sodium Chloride	5.0 g/L
Neutral Red	0.05 g/L
Crystal Violet	0.001 g/L
Agar	15.0 g/L

Final pH: 7.2 ± 0.2 at 25°C

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution

1. Refer to SDS

Preparation

1. Suspend 51.6 grams of the medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes
4. Cool to 45-50°C.

Test Procedure

- Surface inoculation as per user's validated methods.
- Incubate at 37°C ± 1°C for 18 - 48 hours.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free-flowing and beige.

Prepared Appearance: Prepared medium is a clear, red-purple gel.

Minimum QC:

Enterococcus faecalis ATCC 29212
Escherichia coli ATCC 25922
Salmonella typhimurium ATCC 14028
Staphylococcus aureus ATCC 6538 (Inhibited)

Technical Specification Sheet



Results

Organism	Colony Size (mm)	Color
<i>Enterococcus faecalis</i>	0.5 mm	Red-purple
<i>Escherichia coli</i>	3 – 4 mm	Red-purple
<i>Salmonella</i> spp.	2 – 3 mm	Translucent
<i>Staphylococcus aureus</i>	No growth	

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

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