

## PRODUCT INFORMATION

MacConkey Agar without Crystal Violet

Cat. No. M13-108

### DESCRIPTION

MacConkey Agar without Crystal Violet is a modified version of the first media developed for the isolation of Gram-negative enteric bacteria. It is intended for the isolation and detection of Enterobacteriae, and the absence of crystal violet makes it less selective, allowing for the growth of *Enterococcus* and some *Staphylococcus* species. Gram-negative enteric bacteria which ferment lactose will produce red to pink colonies and will decrease the pH which will be indicated by the neutral red.

### FORMULA (g/L)

|                                |        |                    |        |
|--------------------------------|--------|--------------------|--------|
| Pancreatic Digest of Gelatin   | 17.0 g | Lactose            | 10.0 g |
| Casein Digest Peptone          | 1.5 g  | Bile Salts Mixture | 5.0 g  |
| Peptic Digest of Animal Tissue | 1.5 g  | Sodium Chloride    | 5.0 g  |
| Neutral Red                    | 0.03 g | Agar               | 12.0 g |

Final pH: 7.4 ± 0.2 at 25 °C

\*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

### PREPARATION

Mix 52 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light pinkish beige.
2. Visually the prepared medium is clear to slightly hazy and reddish orange.
3. Expected cultural response after 18-24 hours at 35 °C.

| ORGANISM                                   | RESULT      |                    |
|--|-------------|--------------------|
| <i>Staphylococcus epidermis</i> ATCC 12228 | Good Growth | Pink colonies      |
| <i>Klebsiella aerogenes</i> ATCC 13048     | Good Growth | Pink colonies      |
| <i>Salmonella enteritidis</i> ATCC 13076   | Good Growth | Colorless colonies |
| <i>Escherichia coli</i> ATCC 25922         | Good Growth | Red-pink colonies  |
| <i>Staphylococcus aureus</i> ATCC 25923    | Good Growth | Pink colonies      |

## STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.