PRODUCT INFORMATION

Your Smarter Culture Media Choice

Formula* per Liter:



Date of issue 2/10/14

MacConkey Agar Cat. No. M13-106

DESCRIPTION

MacConkey Agar is used for the isolation and differentiation of the coliform organisms and enteric pathogens based upon the fermentation of lactose. This formulation is an improvement on the original. Modifications were made to improve the growth of *Salmonella* and *Shigella* strains. MacConkey Agar contains crystal violet and bile salts that inhibit Gram-positive organisms and allow Gram-negative organisms to grow. Coliforms that ferment lactose turn dark red to purple color and non-fermenters are colorless.

Final pH: 7.1 ± 0.2 at 25° C

Pancreatic Digest of Gelatin......17.0g

Casein Digest Peptone.......1.5g Peptic Digest of Animal Tissue.....1.0g

Crystal Violet......0.001g

PREPARATION

Mix 50 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 pink to beige.
- 2. Visually the prepared medium is clear to trace hazy and medium to dark pinkish purple.
- **3.** Expected cultural response after 18-48 hours at 35°C.

Organism:

Escherichia coli ATCC® 25922 Proteus mirabilis ATCC® 12453 Salmonella typhimurium ATCC® 14028 Enterococcus faecalis ATCC® 29212

Result:

Growth, Pink-purple colonies Growth, Colorless, Swarming Inhibited Growth, Colorless colonies Growth Inhibited

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 light pink to beige color.

^{*} Grams per liter may be adjusted or formula supplemented to obtain desired performance.