

PRODUCT INFORMATION

Modified mTEC Agar

Cat. No. M13-141



ALPHA[™]
BIOSCIENCES

Date of Issue:
10/01/17

DESCRIPTION

Modified mTEC Agar is a medium intended for the chromogenic detection and enumeration of *Escherichia coli* in water by the membrane filtration technique. This product conforms to USEPA Approve Method 1603.

PREPARATION

Mix 45.6 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is clear and light beige.
3. Expected cultural response after 22-24 hours at 44.5°C following incubation at 35°C for 2 hours.

Organism:

Enterococcus faecalis ATCC® 19433
Escherichia coli ATCC® 11775
Escherichia coli 0157:H7 ATCC® 35150
Escherichia coli ATCC® 35218

Result:

Partial Inhibition, Clear colonies
Growth, Magenta colonies
Growth, Tan colonies
Growth, Magenta 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.

Formula* per Liter:

| | |
|--|-------|
| Proteose Peptone No. 3..... | 5.0g |
| Yeast Extract | 3.0g |
| Lactose | 10.0g |
| Sodium Chloride | 7.5g |
| Dipotassium Chloride..... | 3.3g |
| Monopotassium Phosphate | 1.0g |
| Sodium Lauryl Sulfate..... | 0.2g |
| Sodium Deoxycholate | 0.1g |
| 5-bromo-6-chloro-3-indolyl-β-D- glucuronide | 0.5g |
| Agar | 15.0g |

Final pH: 7.3 ± 0.2 at 25°C

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