FoodChek
Food safety, simplified.

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Actero™ Modified EC Medium Product Information

Catalogue No.	Description
FCM-096	Actero™ Modified EC Medium (500 G)
FCM-095	Actero™ Modified EC Medium (2 KG)
FCM-094	Actero™ Modified EC Medium (10 KG)

INTENDED USE

Modified EC Medium is used with the addition of novobiocin for the pre-enrichment of *E. coli* 0157:H7. The modification within this medium is a reduction of Bile Salts #3 in relation to the standard EC Medium developed by Hajna and Perryl. It remains a buffered lactose broth containing bile salts to inhibit gram-positive bacteria and spore forming microorganisms but also contains novobiocin which is found to be beneficial in the enrichment and detection of *E. coli* 0157:H7.

Formula* per Liter:

Casein Digest of Peptone 20.0g
Sodium Chloride 5.0g
Monopotassium Phosphate..... 1.5g
Lactose 5.0g
Bile Salts Mixture 1.12g
Dipotassium Phosphate 4.0g
Novobiocin..... ..0.02g
Final pH: 6.9 ± 0.2 at 25°C

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

PREPARATION

Mix 36.6 grams of the medium in one Liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Distribute into test tubes containing inverted fermentation Durham tubes and autoclave at 121.0°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and light beige.
2. Visually the prepared medium is light to medium gold, brilliant to clear.
3. Expected cultural response after 18-24 hours at 44.5°C.

Organism	Result
Escherichia coli ATCC® 35150	Growth
Enterococcus faecalis ATCC® 29212	Inhibition
Escherichia coli ATCC® 43894	Growth
Escherichia coli ATCC® 43895	Growth

STORAGE INSTRUCTIONS:

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 beige color