

Actero™ EC Medium Product Information

Catalogue No.	Description
FCM-093	Actero™ EC Medium (500 G)
FCM-092	Actero™ EC Medium (2 KG)
FCM-091	Actero™ EC Medium (10 KG)

INTENDED USE:

EC Medium, otherwise known as EC Broth, is used to detect the presence of coliform bacteria in water, wastewater, and foods. Developed by Hajna and Perry, it was designed to detect coliform bacteria, specifically *E. coli*. A buffered lactose broth, it contains bile salts to inhibit gram-positive bacteria and spore-forming microorganisms. Coliforms can be detected by growth at 37°C while *Escherichia coli* are detected by growth at 44.5°C. Dipotassium Phosphate and Monopotassium Phosphate act as buffering agents while Sodium Chloride maintains the osmotic balance of the medium.

Formula* per Liter:

Casein Digest of Peptone	20.0g
Sodium Chloride	5.0g
Monopotassium Phosphate.....	1.5g
Lactose	5.0g
Bile Salts #3	1.5g
Dipotassium Phosphate	4.0g

Final pH: 6.9 ± 0.2 at 25°C

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

PREPARATION:

Mix 37 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.

TERMS AND CONDITIONS:

Salus Scientific Inc. makes no representations and warranties concerning its products other than those stated herein. All Product(s) delivered hereunder by Salus Scientific Inc., its affiliates or any other person on its behalf shall, at the time of delivery, be manufactured to meet Salus Scientific Inc.'s specifications and all applicable laws.

All other terms, conditions and warranties, including any warranty of merchantability, quality, fitness or suitability for a particular or intended purpose, implied by common law or statute, (implied warranties) are expressly excluded.

FOR FURTHER INFORMATION, PLEASE CONTACT:

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QUALITY CONTROL SPECIFICATIONS:

1. The powder is homogeneous, free-flowing, and light beige.
2. Visually the prepared medium is brilliant to gold and clear with little or no precipitate.
3. Expected cultural response after 24-26 hours at 44.5°C.

Organism	Result	Gas
<i>Escherichia coli</i> ATCC® 25922	Growth	+
<i>Escherichia coli</i> ATCC® 11775	Growth	+
<i>Enterococcus faecalis</i> ATCC® 29212	Inhibition	-

Storage Instructions:

On receipt, 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 beige color.