



Actero™ Fluorocult DEV Lactose Peptone Broth

Catalogue No.	Description
FCM- 246	Actero™ FDL Peptone Broth (500 G)
FCM- 247	Actero™ FDL Peptone Broth (2 KG)

INTENDED USE

This medium is particularly suited for the enrichment and determination of the titre of coliform bacteria in the bacteriological analysis of water. E. coli shows a positive fluorescence under UV light (366 nm). A positive indole reaction is made for confirmation.

Formula* per Liter:

Peptone from Casein.....	17.0g
Peptone from Soya.....	3.0g
Lactose.....	10.0g
Sodium Chloride.....	5.0g
Bromocresol Purple.....	0.02g
Tryptophan.....	1.0g
4-Methylumbellifery1-13-β - D- Glucuronidase.....	0.1g

Final pH: 7.2 ± 0.2 at 25°C *

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

PREPARATION

Suspend 36.1 g/liter or 72.2 g/liter, dispense into test tubes fitted with DURHAM tubes, autoclave (15 min at 121 °C).

Experimental Procedure and Evaluation

This depends on the various methods of water analysis.

Gas in the DURHAM tubes after incubation (24-48 hours at 35 °C aerobically) denotes the presence of E. Coli and/or other coliform bacteria.

Check the tubes under UV light: light blue fluorescence indicates the presence of E. Coli in the culture. If fluorescence is negative after 24 hours of incubation do not add KOVACS

reagent to check indole reaction (this alcoholic reagent destroys the growth conditions in the medium). Continue incubation for another 24 hours. Then check for fluorescence and indole reaction.

To confirm detection, cover the culture with a 5 mm layer of KOVACS indole reagent. If after 1-2 minutes a red ring shows up, the presence of E. Coli is confirmed

Organism	Result
<i>Escherichia coli</i> ATCC® 25922	Good / Very Good
<i>Enterobacter aerogenes</i> ATCC 13048	Good / Very Good
<i>Klebsiella pneumoniae</i> ATCC 13883	Good / Very Good
<i>Salmonella typhimurium</i> ATCC 14028	Good / Very Good
<i>Aeromonas hydrophila</i> ATCC 7966	Fair / Very Good
<i>Enterococcus faecalis</i> ATCC 11700	Fair / Very Good

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 greenish beige.

