

# PRODUCT INFORMATION



## DC Medium

Cat. No. D04-117

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### DESCRIPTION

DC Medium is a selective medium used for the detection of *Escherichia coli* in samples using the membrane filtration method in a laboratory setting. Tryptose and Proteose Peptone provide nitrogen, carbon, and amino acids in DC Medium. Yeast Extract supplies vitamins and minerals. Sodium Chloride maintains the osmotic balance of the medium. Bile Salts is a selective agent against Gram-positive bacteria, particularly bacilli and fecal streptococci. Cefsulodin supplements the medium as a selective agent. Neutral Red is the dye indicator, and Agar is the solidifying agent.

### PREPARATION

Mix 49.58 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring until boiling to dissolve completely. DO NOT AUTOCLAVE. Cool to below 50°C and aseptically add 1.2 mL of a 10 g/L Cefsulodin sodium salt supplement. Mix well and distribute.

#### Formula\* per Liter:

Lactose .....	10.0g
Tryptose .....	10.0g
Yeast Extract.....	3.0g
Sodium Chloride.....	5.0g
Proteose Peptone .....	5.0g
Bile Salts .....	1.5g
Neutral Red.....	0.08g
Agar .....	15.0g

#### Final pH: 7.2 ± 0.2 at 25°C

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

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and beige to gray-pink beige.
2. Visually the prepared medium is light to medium brick red.
3. Expected cultural response on supplemented medium after 18-24 hours at 35°C.

#### Organism:

*Enterococcus faecalis* ATCC® 29212  
*Escherichia coli* ATCC® 25922  
*Salmonella typhimurium* ATCC® 14028

#### Result:

Inhibited  
Growth; Pink Colonies with Bile Precipitate  
Growth; Colorless/Translucent 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 solidified.