PRODUCT INFORMATION

DC Medium

Cat. No. D04-117

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.

FORMULA (g/L)

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

Final pH: 7.2 ± 0.2 at 25 ºC

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

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.

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.

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ORGANISM	RESULT
Enterococcus faecalis ATCC 29212	Inhibited
Escherichia coli ATCC 25922	Growth; Pink colonies with Bile Precipitate
Salmonella typhimurium ATCC 14028	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 not free flowing or if the color has changed from the original color.

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