

PRODUCT INFORMATION

SF Broth

Cat. No. S19-109

SF (*Streptococcus faecalis*) Broth is a selective medium for the identification and differentiation of Enterococci from other cocci. Casein Enzymatic Hydrolysate provides amino acids, peptides, carbohydrates, vitamins, and trace elements. Dextrose is the fermentable carbohydrate.

DESCRIPTION

SF (*Streptococcus faecalis*) Broth is a selective medium for the identification and differentiation of Enterococci from other cocci. Casein Enzymatic Hydrolysate provides amino acids, peptides, carbohydrates, vitamins, and trace elements. Dextrose is the fermentable carbohydrate. Sodium Azide inhibits Gram-negative organisms, thus making it selective for Enterococci. Phosphates serve as pH buffers. Sodium chloride maintains the osmotic equilibrium. Bromocresol Purple is the pH indicator that turns yellow upon Dextrose fermentation by Enterococci.

FORMULA (g/L)

Casein peptone	17.0 g	Yeast extract	3.0 g
Dextrose	5.0 g	Sodium chloride	5.0 g
Potassium phosphate dibasic	4.0 g	Potassium phosphate monobasic	1.5 g
Sodium azide	0.4 g	Bromcresol purple	0.1 g

Final pH: 6.2 ± 0.2 at 25 °C

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

PREPARATION

Mix 36 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light grayish beige.
2. Visually the prepared medium is purple and clear to trace haze.
3. Expected cultural response after 18-24 hours at 45 °C ± 5°C.

ORGANISM	GROWTH
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Enterococcus faecium</i> ATCC 27270	Good Growth, Yellow Color
<i>Streptococcus bovis</i> ATCC 33317	None to Poor Growth

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.