PRODUCT INFORMATION

SF Broth

Cat. No. S19-109

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DESCRIPTION

Hajna and Perry specified the formula of SF Broth, a medium that is selective for fecal streptococci when incubated at 45.5°C. SF Broth has been used for testing water and other materials for fecal contamination. Detection of fecal streptococci is used as an indicator of pollution. SF Broth is used to differentiate Group D enterococci from Group D non-enterococci and other *streptococcus* spp. that are not Group D. SF broth is differential in two ways. First, it differentiates based on whether an organism has the ability to grow in the presence of the inhibitor, sodium azide. Second, it detects whether an organism can ferment carbohydrate, dextrose, producing a pH color.

Formula* per Liter:

Enzymatic Digest of Casein	17.0g
Yeast Extract	3.0g
Dipotassium Phosphate	4.0g
Monopotassium Phosphate	1.5g
Bromocresol Purple	0.032g
Dextrose	5.0g
Sodium Chloride	5.0g
Sodium Azide	0.4g
Sodium Carbonate	0.1g

Final pH: 6.9 ± 0.2 at 25°C

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

PREPARATION

Mix 36.0 grams of the medium in one liter of purified water until evenly dispersed. Distribute and autoclave at 121.0°C for 15 minutes. Note: The medium may be prepared at double strength when being diluted with an equal volume of liquid sample.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige to gray.
2. Visually the prepared medium is clear and purple.
3. Expected cultural response after 18-48 hours at 45°C.

Organism:	**Result:**
Escherichia coli ATCC® 25922	Inhibited
Enterococcus faecium ATCC® 27270	Growth, yellow color
Streptococcus bovis 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.

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