

TM 845 - SF BROTH, MODIFIED

INTENDED USE

For detection of Enterococci in diagnostic work.

PRODUCT SUMMARY AND EXPLANATION

SF Broth Modified is modification of original SF broth formulation by Hajna and Perry for faecal streptococci in the swimming pools, water and milk samples. SF Broth Modified is developed for detection of Enterococci in diagnostic work.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	9.000
Glucose	20.000
Yeast extract	5.000
Sodium citrate	10.000
Dipotassium phosphate	1.000
Monopotassium phosphate	1.000

PRINCIPLE

Casein enzymic hydrolysate and yeast extract provide necessary nutrients like nitrogenous compounds and vitamin B complex. Sodium citrate is an inhibitor for gram negative bacteria. Glucose is the fermentable carbohydrate source in the medium. Dipotassium and monopotassium phosphate help in buffering the medium.

INSTRUCTION FOR USE

- Suspend 46.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Yellow coloured clear solution without any precipitate.
pH (at 25°C) : 6.8±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Good	35-37°C	18-24 Hours



<i>Enterococcus faecalis</i>	29212	50-100	Good	35-37°C	18-24 Hours
<i>Streptococcus bovis</i>	33317	50-100	Good	35-37°C	18-24 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good	35-37°C	18-24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

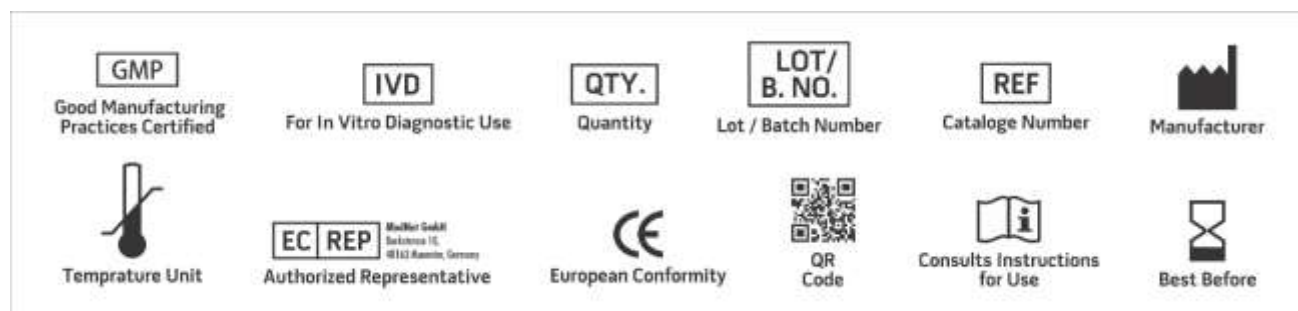
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Hajna and Perry 1943, Am. J. Publ. Hlth 33:550



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019

