

Technical Information

SF Broth Modified

Product Code: DM 1900

Application: - SF Broth Modified is recommended for detection of Enterococci in diagnostic work.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	9.000
Glucose	20.000
Yeast extract	5.000
Sodium citrate	10.000
Dipotassium phosphate	1.000
Monopotassium phosphate	1.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

SF Broth Modified is modification of original SF broth formulation by Hajna and Perry (1) for faecal streptococci in the swimming pools, water and milk samples. SF Broth Modified is developed for detection of Enterococci in diagnostic work.

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.

Methodology

Suspend 46.0 grams of dehydrated powder media in 1000 ml distilled water. Mix thoroughly & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Shake well and dispense as desired.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity

Yellow coloured clear solution without any precipitate

Reaction

Reaction of 4.6 % w/v aqueous solution at 25°C. pH : 6.8±0.2

pH Range

6.60-7.00

Cultural Response

DM1900: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 25922	50-100	good



Dehydrated Culture Media
Bases / Media Supplements

<i>Enterococcus faecalis</i> ATCC 29212	50-100	good
<i>Streptococcus bovis</i> ATCC 33317	50-100	good
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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