

KF Streptococcus Agar Base w/ BCP

Intended Use

KF Streptococcus Agar Base w/ BCP is recommended for detection and enumeration of faecal Streptococci.

Summary

Streptococci are spherical, Gram-positive bacteria and form a part of the normal commensal flora of the mouth, skin, intestine, upper respiratory tract of humans. Streptococci found in the faeces form the faecal Streptococci and constitute of Streptococci with group D Lancefield antigens. The types include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus bovis*, and *Streptococcus duran*. They are low-grade pathogens and rarely cause disease. However, they may cause urinary tract infection in catheterized patients; mixed abdominal wound infections following gut surgery; and endocarditis on abnormal valves. Kenner-Faecal (KF) Medium was developed by Kenner *et al.*, for detecting Streptococci in water and food materials. KF Streptococcus Agar Base is recommended by APHA for enumerating faecal Streptococci in food materials.

Principle

Proteose peptone and yeast extract provide nitrogen, carbon, sulphur, amino acids, vitamins and trace ingredients to the faecal Streptococci. Lactose and maltose are the fermentable carbohydrates and therefore serve as energy sources. Sodium azide is a selective agent, which hampers the growth of Gram-negative bacteria. Bacteria resistant to azide, utilize lactose and/or maltose. 2,3,5-Triphenyl Tetrazolium Chloride (TTC) is reduced to insoluble formazan by actively metabolizing bacterial cells, resulting in the formation of maroon colonies.

Formula*

Ingredients	g/L
Proteose Peptone	10.0
Yeast Extract	10.0
Sodium Chloride	5.0
Sodium Glycerophosphate	10.0
Maltose	20.0
Lactose	1.0
Bromocresol Purple	0.015
Sodium Azide	0.4
Agar	20.0
Final pH (at 25°C)	7.2 ± 0.2

*Adjusted to suit performance parameters

Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Type of Specimen

Clinical samples – faeces
Food and Water samples

Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure.

The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

1. Suspend 76.41 g of the powder in 1000 mL purified / distilled water.
2. Heat to boiling to dissolve the powder completely.
3. Do not autoclave.
4. Overheating will lower the pH and render the medium less productive.
5. Cool to 45°C-50°C and add 10 mL of TTC solution 1 % (204200740010) per 100 mL sterile medium.
6. Pour into sterile petridishes.

Quality Control

Dehydrated Appearance: Cream to greyish yellow homogeneous free flowing powder.

Prepared Appearance: Light purple coloured, clear to slightly opalescent gel forms in petridishes.

Cultural Response: Cultural characteristics observed after an incubation at 35°C-37°C for 48-72 hours.

Organism (ATCC)

Enterococcus faecalis (29212)

Klebsiella aerogenes (13048)

Escherichia coli (25922)

Growth

Good

Inhibited

Inhibited

Colour of Colony

Red-Maroon

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Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Kenner B. A., Clark H. F. and Kabler P. W., 1961, Appl. Microbiol., 9:15.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.
3. Facklam R. R. and Moody M. P., 1970, Appl. Microbiol., 20:245.
4. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.

201110030100

201110030500

Product description












Dehydrated Culture Media

Dehydrated Culture Media

Pack Size

100 g

500 g

 Temperature Limit	 Manufacturer	 Batch Code	 Date of Manufacture	 This way up	 Received on
 Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	 Opened on	

Revision: 0825/VER-03

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.