

TM 2091 – FORGET FREDETTE AGAR

INTENDED USE

For selective isolation of anaerobic microorganisms from a mixture of aerobic and anaerobic flora.

PRODUCT SUMMARY AND EXPLANATION

Anaerobic bacteria are widely distributed in nature in oxygen-free habitats. When collecting specimens from patients for isolation and identification of anaerobic bacteria associated with infections, care should be taken that the specimens should be free of contaminating bacteria. Material from sites that are normally sterile, such as blood, spinal fluid, or pleural fluid, poses no problem provided the usual precautions are taken to decontaminate the skin properly before puncturing it to obtain the specimen. Fecal specimens, sputum specimens, or vaginal secretions cannot be cultured routinely for pathogenic anaerobes because they normally contain other aerobic organisms. Aspirates from abscesses or the specific sites of infections must be obtained in these cases to avoid undue contamination with indigenous flora components.

Forget-Fredette Agar is based on the formulation described by Fredette et al and Forget and Fredette, and it is used for selective isolation of anaerobic microorganisms from a mixture of aerobic and anaerobic flora. Forget and Fredette employed this medium to study the anaerobic flora in chronic nasal sinusitis.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Dextrose (Glucose)	2.500
Sodium chloride	5.000
Dipotassium phosphate	2.500
Sodium azide	0.500
Agar	10.000

PRINCIPLE

The medium consists of Papaic digest of soyabean meal and casein enzymic hydrolysate which provide the necessary nutrients to the anaerobic microorganisms. Dextrose is the carbohydrate source. Dipotassium phosphate buffers the medium. Sodium azide inhibits not only gram-negative cocci and bacilli but also most of the gram-positive aerobes. Forget Fredette Agar allows the growth of *Clostridia*, *Fusiforms*, *Ristella*, *Sphaerophorus* and Streptococci in the depths of the medium tubes. *Bacillus* species, *Listeria* and most gram-negative organisms are inhibited on this medium. This medium can also be used for surface cultivation of anaerobes in plates in anaerobic jars. However, for this purpose, it is recommended to add about four grams of agar to the medium before sterilization. The test sample is inoculated into the depths of the medium tube to facilitate isolation of anaerobic bacteria.

INSTRUCTION FOR USE

- Dissolve 40.5 grams in 1000 ml distilled water.
- If desired add 3 more grams of agar. Heat with frequent agitation to dissolve the medium completely. Dispense in tubes.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.



Warning: Sodium azide has a tendency to form explosive metal azides with plumbing materials. It is advisable to use enough water to flush off the disposables.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.
- Appearance of prepared medium** : Yellow coloured, clear to slightly opalescent gel forms in tubes.
- pH (at 25°C)** : 7.4 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation (*Clostridium* species incubated anaerobically).

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Clostridium perfringens</i>	12924	50-100	Good-luxuriant	35-37°C	24-48 Hours
<i>Streptococcus pneumoniae</i>	6303	10-100	Good-luxuriant	35-37°C	24-48 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. Fredette, Auger and Forget, 1961, Can. Med. A.J., 84:164.
2. Forget and Fredette, 1962, J. Bacteriol., 83:121.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Bauhofstrasse 10, 49163 Muenster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.
*For Lab Use Only
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