

## Technical Information

### Anaerobic Fermentation Medium Base

#### Product Code: DM 1978

**Application:** - Anaerobic Fermentation Medium Base is recommended for observing the of fermentation reactions of anaerobic microorganisms.

#### Composition\*\*

Ingredients	Gms / Litre
Biopeptone	16.000
Beef extract	4.000
Sodium chloride	5.000
Agar	15.000
Final pH ( at 25°C)	7.2±0.2

\*\*Formula adjusted, standardized to suit performance parameters

#### Principle & Interpretation

Philips described a simple and sensitive technique for the determination of fermentation reactions of non sporing anaerobes <sup>(1)</sup>. These non-sporing anaerobes are a heterogeneous group of opportunistic pathogens that constitutes normal flora of skin and mucosal membranes. Biopeptone and beef extract in the medium provides nitro chloride gen and other nutrients necessary to support bacterial growth. Sodium is an essential ion and helps in maintaining the osmotic balance of the medium. Agar is the solidifying agent.

#### Methodology

Suspend 40 grams of powder in 1000 ml distilled water. Shake well & heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add 5-7 % sterile defibrinated horse blood. Mix well before pouring.

#### Quality Control

##### Physical Appearance

Cream to yellow coloured homogeneous free flowing powder

##### Gelling

Firm, comparable with 1.5% Agar gel

##### Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in petri plates

##### Reaction

Reaction of 4.0% w/v aqueous solution at 25°C. pH : 7.2±0.2

pH Range:- 7.00-7.40

##### Cultural Response/Characteristics

DM 1978: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Clostridium perfringens</i> ATCC 13124	50-100	Luxuriant	>=50%
<i>Clostridium sporogenes</i> ATCC 11437	50-100	Luxuriant	>=50%



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

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

## Further Reading

1. Phillips KD. 1976, J Appl Bacteriol.41(2):325-8.

## Disclaimer :

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