

## CM 20,065 – ANAEROBIC AGAR

### INTENDED USE

For cultivation of anaerobic bacteria especially Clostridium species.

### PRODUCT SUMMARY AND EXPLANATION

Anaerobic Agar was originally designed for surface cultivation of members of the genus Clostridium and other anaerobic organisms on plates. This medium is suitable for isolation of facultative and obligate anaerobes and for the study of colonial morphology as colonies can be readily seen on the light coloured agar and are easily accessible. Anaerobic bacteria vary in their sensitivity to oxygen and nutritional requirements. Anaerobic bacteria lack cytochromes and thus are unable to use oxygen as a terminal electron acceptor.

Dispense 50-60 ml medium per 95 x 20 mm plate. For best results, use porous tops for the plates during solidification to get the dry surface. Inoculation can be done by streaking or smearing. Cover the inoculated plate with sterile Brewer Anaerobic Petri dish cover. Incubate aerobically, as desired. When standard plates are used, dispense 0.1 to 1.0 ml of inoculum into plates and mix with 20 - 25 ml of sterile medium. After solidification, incubate anaerobically as required by particular organism under study.

### COMPOSITION

Ingredients	Gms / Ltr
Tryptone	20.000
Dextrose (Glucose)	10.000
Sodium chloride	5.000
Sodium thioglycollate	2.000
Sodium formaldehyde Sulfoxylate	1.000
Methylene blue	0.002
Agar	20.000

### PRINCIPLE

This medium contains sodium thioglycollate and sodium formaldehyde sulphoxylate that provide adequate anaerobiosis which is indicated by methylene blue present in the medium which yields blue colour to medium in presence of oxygen. Tryptone and dextrose provide essential nutrients while sodium chloride maintains osmotic equilibrium. Methylene blue is inhibitory to some anaerobic microorganisms.

### INSTRUCTION FOR USE

Dissolve 58.0 grams in 1000 ml purified/ distilled water.

Heat to boiling to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.

☐ Mix well and pour into sterile Petri plates.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.  
 Appearance of prepared medium : Light amber coloured, clear to slightly opalescent gel forms in Petri plates that becomes greenish due to aeration on standing.  
 pH (at 25°C) : 7.2±0.2



**INTERPRETATION**

Cultural characteristics observed after incubation under anaerobic conditions.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Clostridium perfringens	12924	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours
Clostridium sporogenes	11437	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours
Clostridium butyricum	13732	50-100	Good-luxuriant	>=50%	35-37°C	48-72 Hours

**PACKAGING:**

In pack size of 100 gm and 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. Baron E. J., Peterson and Finegold S. M., Bailey & Scotts Diagnostic Microbiology, 9th Ed., 1994, Mosby-Year Book, Inc., St. Louis, Mo.
2. Brewer J. H., 1942, Science, 95:587
3. Vera J., 1942, J. Bacteriol., 44:497.

 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>MedMet GmbH Barkstrasse 10, 48163 Maastricht, 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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