



Gifu anaerobic Agar w/o dextrose w/0.15% Agar

Recommended as a general culture medium for identification and strain preservation of anaerobic bacteria.

Composition**	
Ingredients	Gms / Litre
Peptone	10.000
Soya Peptone	3.000
Proteose peptone	10.000
Digested serum	13.500
Yeast extract	5.000
HM peptone B #	2.200
HL extract##	1.200
Potassium dihydrogen phosphate	2.500
Sodium chloride	3.000
L-Cysteine hydrochloride	0.300
Agar	1.500
Final pH (at 25°C)	7.3±0.1
**Formula adjusted, standardized to suit performance parameters	

Equivalent to Beef extract
Equivalent to Liver extract

Directions

Suspend 52.2 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Dispense into tubes or flasks or as desired. Sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes. Store at room temperature in dark place. Do not store in a refrigerator.

Principle And Interpretation

Gifu Anaerobic Medium w/o dextrose w/ 0.15% agar is a semi solid medium for identification and strain preservation of anaerobic bacteria. Ingredients as digested serum containing hemin favours growth of fastidious anaerobic organisms such as such as streptococci, pneumonococci and meningococci. This medium is also suitable for tests of various biochemical properties and motility studies (5). Anaerobic organisms require reducing condition and an absence of dissolved oxygen in the medium. Strict anaerobes obtain its energy and intermediates through oxidation utilizing hydrogen acceptors other than oxygen. Pre-reducing the medium by boiling to drive off the oxygen can expel this (3). Anaerobic bacteria vary in their sensitivy to oxygen and nutritional requirements (1). Peptone, soya peptone, proteose peptone, HM peptone B, HL extract and yeast extract provide nitrogen, carbon and vitamin source. L-Cysteine hydrochloride acts as a reducing agent and favours grwoth of anaerobic organisms. Sodium chloride maintains osmotic equilibrium (2).

Type of specimen

Isolated Microorgansim

Specimen Collection and Handling:

For isolated microorganism samples follow appropriate techniques for handling specimens as per established guidelines (3,4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Please refer disclaimer Overleaf.

M2033

Limitations :

1. Some organisms may show poor growth due to nutritional variations.

2GTHQTOCPEG CPF 'XCNWCVKQP

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Light yellow to brownish yellow homogeneous free flowing powder

Gelling

Semisolid, comparable with 0.15% Agar gel

Colour and Clarity of prepared medium

Amber coloured semisolid gel forms in tube

Reaction

Reaction of 5.22% w/v aqueous solution at 25°C. pH : 7.3±0.1

Cultural Response

Cultural characteristics observed in an anaerobic atmosphere after an incubation at 35 - 37°C for 48 - 72 hours.

Organism	Inoculum (CFU)	Growth
Streptococcus pyogenes ATCC 19615	50-100	good - luxuriant
Bacteroides vulgatus ATCC 8482	50-100	good - luxuriant
Clostridium sporogens ATCC 11437	50-100	good - luxuriant
Clostridium perfringens ATCC 13124 (00007*)	50-100	good - luxuriant

Key : (*) Corresponding WDCM numbers.

Storage and Shelf Life

Store be WZHHQf and the store of the property stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Reference

- 1. Collee J.G., Fraser A.G., Marminon B.P., Simmons A.,)(Eds), 1996, Mackie and McCartney. Practical Medical Microbiology, 14th Ed., Churchill Livingstone.
- 2. Gibbons R.J., and MacDonald J.B., 1960, J. Bacteriol, 80:164-170
- Isenberg, H.D. (2nd Ed.), Clinical Microbiology Procedures Handbook, American Society for Microbiology, Washington, D.C.
- 4. RUJHQV+H3QIDO00H\$U&DUU.R&O0XQN*H / DQG0U / 5LFKW6H6DQGDUQRFN

Manual of Clinical Microbiology, 11th Edition. Vol. 1.

5. Nissui Manual, Microbiological products Nissui Pharmaceutical Co., 1983.

Disclaimer :

Revision : 01/2019

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia[™] publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia[™] Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.