Transport Medium, Amies without Charcoal

M684

Transport Medium, Amies without Charcoal is used for transport and preservation of microbiological specimen.

Ingredients	Gms / Litre
Sodium chloride	3.000
Potassium chloride	0.200
Calcium chloride	0.100
Magnesium chloride	0.100
Monopotassium phosphate	0.200
Disodium phosphate	1.150
Sodium thioglycollate	1.000
Agar	4.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 9.75 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Dispense in screw cap bottles or tubes in 6 ml or desired quantity. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool in an upright position.

Principle And Interpretation

Transport Medium is necessarily and should be a non-nutrient, semisolid, reductive medium which hampers the self- destructive enzymatic reactions within the cells and also inhibits toxic oxidation effects. Transport Medium was primarily developed by Moffett et al (5) and Stuart et al (6) for carrying gonococcal specimens. However Cary and Blair (2) observed the problem of overgrowth of contaminating organisms while carrying faecal specimens containing Shigellae. It was seen that the contaminants derive their energy from the glycerophosphate and therefore a buffer having inorganic salts was a better replacement for glycerophosphate.

Amies (1) modified Stuart's Transport Medium (6,7,8) by replacing glycerophosphate with an inorganic phosphate buffer, provides a reduced environment due to the presence of sodium thioglycollate and small amount of agar. Amies Medium is devoid of methylene blue. Calcium, magnesium, potassium and sodium salts help the survival of gonococcal cells by restricting their permeability Phosphates buffer the medium.

For the collection of the specimen, use sterile cotton tipped swabs on wooden sticks. Push the swabs down to one third of the medium depth and cut the stick, so that when the cap is screwed down, the swab is forced to the bottom of the medium. Tighten the cap firmly on the bottle. The specimen will be preserved during transportation and also the viability of the organisms will be maintained but it will diminish over the time. Some growth of contaminants also may occur during longer period of transport. After the transportation, the specimen should be inoculated in proper medium as soon as possible.

The cultures on transport swabs must not be kept at room temperature for more than 24 hours.

Type of specimen

Clinical samples : pathological samples

Specimen Collection and Handling

For clinical 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

In Vitro diagnostic use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1.The specimen will be preserved and the viability of the organisms will be also maintained during transport, but over the time it will diminish.
2.Therefore direct inoculation of the specimen is advised.
3. Some growth of accompanying contaminants may also occur during longer period of transit.
4. The specimen should be inoculated into a proper medium as soon as possible.

Performance and Evaluation

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
Off-white to yellow homogeneous free flowing powder

Gelling
Semisolid,comparable with 0.4% Agar gel.

Colour and Clarity of prepared medium
Colourless clear to slightly opalescent gel forms in tubes as butts.

Reaction

Reaction of 1.0% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH
7.10-7.50

Cultural Response
M684: Cultural characteristics observed when subcultured on Tryptone Soya Agar (M290),after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Recovery on Tryptone Soya Agar (M290)
Neisseria meningitidis ATCC 13090	50-100	luxuriant
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*)	50-100	luxuriant
Staphylococcus epidermidis ATCC 12228 (00036*)	50-100	luxuriant
Streptococcus pyogenes ATCC 19615	50-100	luxuriant

Key : *Corresponding WDCM numbers.

Storage and Shelf Life

Store below 30°C in a tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label. On opening, product should be properly 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. Use before expiry date on the label.
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).

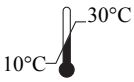
Reference

1. Amies C. R., 1967, Can. J. Public Health, 58:296
2. Cary and Blair, 1964, J. Bacteriol., 88:96.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
4. Jorgensen,J.H., Pfaller , M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
5. Moffett, Young and Stuart, 1948, Brit. Med. J., 2:241.
6. Stuart R. D., 1946, J. Path. Bact., 58:343.
7. Stuart R. D., 1959, Pub. Hlth. Rep., 74: 431.
8. Stuart R. D., Toshach S. R. and Patsula T. M., 1954, Can. J. Pub. Hlth., 45:75.

Revision : 02/ 2018

IVD — In vitro diagnostic medical device

CE Marking



Storage temperature

Do not use if package is damaged

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