

Amies Transport Medium without Charcoal

Intended Use

Amies Transport Medium without Charcoal is recommended for transportation and preservation of microbiological specimen.

Summary

Transport medium is necessarily and should be non-nutrient, semisolid, reductive medium which hampers the self destructive enzymatic reactions within the cells and also inhibits toxic oxidation effects. Amies Transport Medium without Charcoal was formulated by Amies by modifying Cary and Blair's medium for transporting microbiological specimens. Amies transport medium is a modification of Stuarts Transport Medium, in which glycerophosphate is replaced by inorganic phosphate buffer. This prevents problem of overgrowth of contaminating organisms while carrying faecal specimens containing Shigellae which derive energy from glycerophosphate.

Principle

Calcium and magnesium salts control the permeability of bacterial cells. Presence of sodium thioglycollate and small amounts of agar provide a reduced environment. Addition of inorganic phosphate buffer and sodium chloride make this medium different from stuart's transport medium. Sterile cotton swabs allow absorption of specimen material while polypropylene shaft allows semiflexibility to the swab stick, aiding in collection.

Formula*

Ingredients	g/L
Sodium Chloride	3.0
Potassium Chloride	0.2
Calcium Chloride	0.1
Magnesium Chloride	0.1
Monopotassium Phosphate	0.2
Disodium Phosphate	1.15
Sodium Thioglycollate	1.0
Agar	4.0
Final pH (at 25°C)	7.3 ± 0.2

*Adjusted to suit performance parameters.

Directions

1. Collect the sample using sterile swab.
2. Open the cap of the media tube and fix the swab inside the notch.
3. Insert the swab into the media and cap it.

Quality Control

Appearance: Off white coloured, opaque, semi-solid gel in tubes as butts.

Cultural Response: Cultural characteristics observed after an incubation of ATM medium without Charcoal with sterile cotton swabs dipped in the culture suspensions at room temperature (20°C - 25°C) for 18 - 24 hours. The swabs were streaked on Tryptone soya agar plates and incubated at 35°C - 37°C for 18 - 48 hours.

Organism (ATCC)	Growth
<i>Streptococcus pyogenes</i> Strain Bruno (19615)	Good
<i>Bacteroides fragilis</i> (25285)	Good
<i>Neisseria gonorrhoeae</i> (49226)	Good

Remarks

1. Do not use media bottles that exhibit any damage, cracks, microbial contamination, discolouration, drying or any other sign of deterioration.
2. Good laboratory practices and hazard precautions must be observed at all times.
3. After use media containers, sample, sample containers and other contaminated materials must be sterilized or incinerated before discarding.
4. All autoclaved biohazards should be disposed off in accordance with state and local environmental regulations.

5. Only qualified personnel who have been trained in microbiological procedures should handle all infected specimens and inoculated culture media.
6. User should ensure that any machinery or apparatus used and by chance contaminated must be safely disinfected or sterilized. The environment in which microbiological cultures are handled must also be taken into account.

Storage and Stability

1. Store the ready to use Amies Transport Medium without Charcoal at 15°C-25°C, away from light.
2. Stability of Amies Transport Medium without Charcoal is as per expiry date mentioned on the label.

Limitations

It may not be suitable for the transport of fastidious organisms.

Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference

1. Amies C.R., 1967, Can. J. Public Health, 58:296.
2. Stuart R.D., 1946, J. Path. Bact., 58:343.
3. Stuart R.D., 1959, Pub. Hlth. Rep., 74:431.
4. Stuart R.D., Toshach S.R. and Patsula T.M., 1954, Can. J. Pub. Hlth., 45:75.
5. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.
6. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
7. 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.
8. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
203010430005	Ready Prepared Tube	25 x 5 mL

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
