

Amies Transport Medium with Charcoal and with Cotton Swab

Intended Use

Amies Transport Medium with Charcoal and with Cotton Swab is recommended for transportation and preservation of microbiological specimen.

Summary

Effective recovery of microorganisms and its identification is dependent on a number of factors such as collection and transportation to the laboratory under conditions which allow maintenance of viability. Amies transport medium with charcoal is a modification of Stuarts Transport Medium. The medium gives improved recovery of *Neisseria gonorrhoeae* due to presence of charcoal in the medium. Sterile cotton swabs allow absorption of specimen material while polypropylene shaft allows semiflexibility to the swab stick, aiding in collection.

Principle

Charcoal neutralizes the toxic effects of material that may hamper growth of pathogens. Addition of inorganic phosphate buffer and sodium chloride make this medium different from stuart's transport medium. Calcium and magnesium salts control the permeability of bacterial cells. Presence of sodium thioglycollate and small amounts of agar provide a reduced environment.

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
Charcoal	10.0
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 media and cap it.

Quality Control

Appearance: Black coloured, opaque, semi-solid gel in tubes as butts and sterile cotton swab with polypropylene stick.

Cultural Response: Cultural characteristics observed after an incubation of ATM medium 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 with Charcoal and with Cotton Swab at 15°C-25°C, away from light.
2. Stability of Amies Transport Medium with Charcoal and with Cotton Swab 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
203011000005	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.
