

## Amies Transport Medium Without Charcoal

### Intended Use

Amies Transport Medium Without Charcoal is used for transportation and preservation of microbiological specimens.

### Summary

Transport Medium should be a non-nutritive, 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.*, and Stuart *et al.*, for carrying gonococcal specimens. However, Cary and Blair 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.

### Principle

Amies modified Stuart's Transport Medium 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.

### 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.

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label.

### Type of specimen

Clinical samples: faeces, urine, Nasopharyngeal swabs etc.

### Specimen Collection and Handling

Ensure that all samples are properly labelled.

Follow appropriate techniques for handling samples as per established guidelines.

Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration.

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Suspend 9.75 g of the powder in 1000 mL purified / distilled water.
2. Heat to boiling to dissolve the powder completely.
3. Dispense in screw cap bottles or tubes in 6 ml or desired quantity.
4. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.
5. Cool in an upright position.

## Quality Control

**Dehydrated Appearance:** Off- white to yellow coloured, homogenous, free flowing powder.

**Prepared Appearance:** Colourless to whitish coloured, clear to slightly opalescent gel, with slight precipitate forms in tubes as butts.

**Cultural Response:** Cultural characteristics observed when subcultured on Soyabean Casein Digest Agar, after an incubation at 35-37°C for 18-24 hours.

## Organisms (ATCC)

*Neisseria meningitidis* (13090)

## Growth

Good

*Staphylococcus epidermidis* strain PCI 1200 (12228)

Good

*Streptococcus pyogenes* Strain Bruno (19615)

Good

*Staphylococcus aureus* subsp. *aureus* (25923)

Good

## Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

## 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. Moffett, Young and Stuart, 1948, Brit. Med. J., 2:241.
2. Stuart R. D., Toshach S. R. and Patsula T. M., 1954, Can. J. Pub. Hlth., 45:75.
3. Cary and Blair, 1964, J. Bacteriol., 88:96.
4. Amies C. R., 1967, Can. J. Public Health, 58:296
5. Stuart R. D., 1946, J. Path. Bact., 58:343.
6. Stuart R. D., 1959, Pub. Hlth. Rep., 74: 431
7. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

## Product Presentation:

Cat No.	Product description	Pack Size
201011070100	Dehydrated Culture Media	500 g

 Temperature Limit	 Manufacturer	 <b>LOT</b>	Batch Code	 Date of Manufacture	 This way up	 <b>RO</b> Received on
<b>REF</b> Catalogue Number	 Consult Instructions for use	 Use-by Date	 Hygroscopic keep container tightly closed	 Harmful/ Irritant/Toxic	 <b>OO</b> Opened on	

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## 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.