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ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Amies Transport Medium w/o Charcoal

Principle

Amies transport medium described by Cary and Blair (1964), it is a modification of Stuart's medium by substituting inorganic phosphates for glycerophosphate and raising the pH to 8.4. The inorganic phosphates make it non-nutritive and reductive medium, which inhibit the toxic oxidative reaction and prevent selfdistractions with in cell. The media is composed of sodium chloride, potassium chloride, calcium chloride, magnesium chloride, monopotassium phosphate, disodium phosphate, sodium thioglycolate and agar. The sodium chloride, potassium chloride, calcium chloride and magnesium chloride serve essential ions that help maintain osmotic balance and control the permeability of bacterial cells. Monopotassium phosphate and Disodium phosphate provide buffering capabilities. Sodium thioglycolate provides a reduced environment and suppresses oxidative changes. Agar is a solidifying agent.

Use: For the transport of swab specimens to prolong the survival of microorganisms

Contents*

Ingredients	Gram/Litre
Sodium Chloride	3.00
Potassium Chloride	0.20
Calcium Chloride	0.10
Magnesium Chloride	0.10
Monopotassium Phosphate	0.20
Disodium Phosphate	1.15
Sodium Thioglycolate	1.00
Agar	4.00
pH at 25˚C	7.3 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 9.75 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically in screw cap bottles. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool in upright position and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Off white colored free flowing, homogeneous powder**
Reaction of 9.7% solution	**7.3 ±0.2 at 25 ˚C**
pH	**7.10- 7.50**
Gelling	**Semi solid comparable with 0.4% agar gel**
Color and clarity of ready medium	**Colorless clear slight opalescent soft gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after incubation at 35±2°C for 18-24 hours. Characteristic observed when subculture on tryptone soya agar.

Organism	ATCC	Inoculum (CFU)	Growth
Staphylococcus aureus	**25923**	**50-100**	**Luxuriant**
Staphylococcus epidermidis	**12228**	**50-100**	**Luxuriant**
Streptococcus pyogenes	**19615**	**50-100**	**Luxuriant**

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.
Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.
4. Cary, S. G., and E. B. Blair. (1964). New transport medium for shipment of clinical specimens. Journal. Bacteriol. 88:96-98.

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