

Amies Transport Medium without Charcoal

Cat. 1530

For transport and maintenance of microbiological samples

Practical information

Applications	Categories
Transport	General use

Industry: Clinical / Transport media for samples

Principles and uses

Amies Transport Medium without Charcoal is used for collecting, transporting and preserving microbiological specimens. It is formulated to maintain the viability of microorganisms without significant increase in growth, being nonnutritive, phosphate buffered and semi-solid. Amies Transport Medium is recommended for throat, vaginal, and wound samples.

The Chloride salts supply essential electrolytes for transport and osmotic balance. Phosphates act as a buffer system. Sodium thioglycollate suppresses oxidative changes and provides a reduced environment.

The survival of bacteria in a transport medium depends on various factors such as bacteria type and concentration in the specimen, transport medium formulation, the temperature and duration of transport, and inoculation to appropriate culture media within 24 hours. Optimal growth and typical morphology can only be expected if direct inoculation and appropriate cultivation are followed.

Formula in g/L

Agar N° 2	7,5	Calcium chloride	0,1
Magnesium chloride anhydrous	0,1	Potassium chloride	0,2
Potassium dihydrogenphosphate	0,2	Sodium chloride	3
Sodium hydrogen phosphate	1,1	Sodium thioglycollate	1

Preparation

Suspend 13,2 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into tubes and sterilize in autoclave at 121°C for 15 minutes.

Instructions for use

- Insert inoculated sterile swabs into the upper third of the transport medium within the transport container.
- Break off the protruding portion of the swab stick and tightly screw shut.
- Send to the laboratory within 24 hours for culture analysis.
- Specimens may be refrigerated until ready for shipment.

Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Cream	Opalescent	7,3 ± 0,2

Microbiological test

Microrganisms	Specification
Shigella flexneri ATCC 12022	Good recovery at 4 and 25 °C, >50%
Neisseria gonorrhoeae ATCC 19424	Good recovery at 4 and 25 °C, >50%

Brucella abortus ATCC 4315
Streptococcus pneumoniae ATCC 6305
Salmonella typhi ATCC 6539

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Storage

Temp. Min.:2 °C
Temp. Max.:25 °C

Bibliography

Amies C.R. (1967) "A Modified Formula for the Preparation of Stuart's Transport Medium". Can. J. Public Health 58: 296-300.