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Product Information

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A0590 Amies Transport Medium with Charcoal

Amies Transport Medium with Charcoal is used for transportation and preservation of microbiological specimens.

Composition:

Ingredients	Grams/Litre
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
Final pH 7.2 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.
Appearance: Black colored, homogeneous, free flowing powder.
Color and Clarity: Black colored opaque gel.

Directions:
Suspend 20 g of Amies Transport Medium with Charcoal in 1000 ml of distilled water. Boil to dissolve the medium completely. Dispense in screwcap bottles or tubes. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Cool in an upright position. Turn the tubes several times while agar is solidifying, to maintain uniform suspension of charcoal particles.

Principle and Interpretation:
Amies modified Stuart's Transport Medium by replacing glycerophosphate with an inorganic phosphate buffer and adding charcoal to the medium. Amies Transport Medium provides a reduced environment due to the presence of sodium thioglycollate and a small amount of agar. Charcoal helps to neutralize materials which are toxic to sensitive pathogens like *Neisseria gonorrhoeae*. Calcium, magnesium, potassium and sodium salts help the survival of gonococcal cells and also, control permeability of bacteria cells.

Cultural characteristics after 18-24 hours at 35°C.

Organisms (ATCC)	Growth
Escherichia coli (25922)	+++
Klebsiella pneumoniae (13883)	+++
Pseudomonas aeruginosa (9027)	+++
Salmonella typhi (6531)	+++
Shigella flexneri (12022)	+++
Staphylococcus aureus (25923)	+++
Vibrio cholerae (15748)	+++

References:
1. Amies, C.R., (1967). Can. J. Public Health. 58, 296.
2. Stuart, R.D., (1946). J. Path. Bact. 58, 343.