

Amies Transport Agar (with charcoal)



Medium used for transport and preservation of clinical specimens and other microorganisms.

• CONTENTS (Liter)

Charcoal	10.0 g
Sodium Chloride	3.0 g
Calcium Chloride	0.1 g
Potassium Chloride	0.2 g
Magnesium Chloride	0.1 g
Monopotassium Phosphate	0.2 g
Disodium Phosphate	1.15 g
Sodium Thioglycollate	1.0 g
Agar	4.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 19.75 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in tubes. Arrange tubes in a slanted position. If necessary, dispense the medium before autoclave.

• INTERPRETATION

Amies Transport Agar (with charcoal) is a medium used for transport of clinical specimens and other microorganisms. Charcoal present in the medium permits a high survival rate of the bacteria from fecal specimens and *Neisseria gonorrhoeae*, whilst the sodium thioglycollate lowers the redox potential of the medium, thereby allowing a better conservation of anaerobic bacteria. Sodium chloride maintains osmotic balance. Phosphates are buffering agents. Calcium chloride, potassium chloride and magnesium chloride provide ions.

• TECHNIC

Inoculate the tube to stab the bottom and spreading the specimen on the slant surface using a sterile needle. Incubate at 35 ± 2 °C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: black.

Prepared medium

Appearance: opalescent.

Color: black.

Incubation conditions: 35 ± 2 °C / 18 - 24 hours

Microorganism	ATCC	Survival
<i>Escherichia coli</i>	25922	good
<i>Klebsiella pneumoniae</i>	13883	good
<i>Streptococcus pyogenes</i>	19615	good
<i>Streptococcus pneumoniae</i>	6303	good
<i>Haemophilus influenzae</i>	10211	good
* <i>Neisseria gonorrhoeae</i>	19424	good

* under anaerobic condition.

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Amies, C.R. 1967. Can J. Public Health 58:296-300.
2. Baron. M. A. Pfaller, F. C. Tenover , and R. H. Tenover (Ed.), Manual Of Clinical Microbiology, 6th Ed. American.

• PACKAGE

Cat. No : MB-A1152 Amies Transport Agar (with charcoal)	500 G
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