Anaerobic Transport Medium

Medium used for the collection, transport and preservation of microbiological specimens.

• CONTENTS (Liter)

Sodium Thioglycollate	1.0 g
Disodium Phosphate	1.15 g
Sodium Chloride	3.0 g
Potassium Chloride	0.2 g
Monopotassium Phosphate	0.2 g
Magnesium Sulfate	0.1 g
L-Cysteine	1.0 g
Resazurin	0.001 g
Agar	4.0 g

Final pH = 7.5 ± 0.2 at 25°C

• PROCEDURE

Suspend 10.65 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. Pour into tubes.

• INTERPRETATION

Anaerobic Transport Agar is a medium used for the collection, transport and preservation of clinical specimens. Sodium Thioglycollate and L-cysteine are the reducing agents. Phosphates are the buffering agents. Sodium chloride maintains the osmotic balance. Potassium chloride provides ions. Magnesium sulfate is a cofactor for many metabolic reactions. Resazurin is an oxidation-reduction indicator, being pink when oxidized and colorless when reduced. Agar is the solidifying agent.

• TECHNIC

Put the swab specimens to the medium. Transport the medium with specimen to the laboratory as soon as possible. Inoculate the swab specimen to the proper medium. Transport and inoculation of specimens have to be performed within 48 - 72 hours. Incubate the inoculated medium at 35 ± 2°C for 24 - 48 hours under appropriate conditions. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: greenish white
Prepared medium
Appearance: slightly opalescent
Color: colorless
Incubation conditions: 35 ± 2°C / 24 - 48 hours under appropriate conditions and media

Microorganism	ATCC	Survival
Bacteroides fragilis	25285	good
Clostridium perfringens	13124	good
Staphylococcus aureus	25923	good

• 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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Perry, J. L. (1997). Assessment of swab transport systems for aerobic and anaerobic organism recovery. Journal of clinical microbiology, 35(5), 1269-1271.

• PACKAGE

Cat. No : MB-A0626 Anaerobic Transport Medium	500 G

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