

Product Information

A0465 Alternative Thioglycollate Medium

Alternative Thioglycollate Medium is recommended for sterility testing with certain biological products which are turbid or viscous.

Composition:

Ingredients	Grams/Litre
Casein Enzymic Hydrolysate	15.0
Yeast Extract	5.0
Dextrose	5.5
Sodium Chloride	2.5
L-Cystine	0.5
Sodium Thioglycollate	0.5
Final pH 7.1 +/- 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: Yellow coloured, homogeneous, free flowing powder.

Colour and Clarity: Yellow coloured, clear solution without any precipitate.

Directions:

Suspend 29 g of Alternative Thioglycollate Medium in 1000 ml of distilled water. Heat if necessary to dissolve the medium completely. Distribute into tubes or erlenmeyer flasks as desired. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Principle and Interpretation:

Alternative Thioglycollate Medium is formulated as described in N.I.H. Memorandum, U.S. Pharmacopoeia and Indian Pharmacopoeia. Alternative Thioglycollate Medium contains sodium thioglycollate that can neutralize the bacteriostatic effect of mercurial preservatives. The absence of agar makes it suitable for testing viscous materials. Casein enzymic hydrolysate, yeast extract and L-cystine provide nitrogenous and carbonaceous compounds, vitamin B complex, and other essential growth nutrients. Dextrose is the carbohydrate source.

Cultural characteristics after 24-72 hours at 35°C.

Organisms (ATCC)	Growth
<i>Bacillus subtilis</i> (6633)	+++
<i>Bacteroides vulgaris</i> (8482)	+++
<i>Candida albicans</i> (10231)	+++
<i>Clostridium sporogenes</i> (11437)	+++
<i>Staphylococcus aureus</i> (25923)	+++
<i>Streptococcus pyogenes</i> (19615)	+++
<i>Neisseria meningitidis</i> (13090)	+++
<i>Micrococcus luteus</i> (9341)	+++
<i>Bacteroides fragilis</i> (25285)	+++

References:

1. N.I.H. Memorandum, Culture Media for Sterility Tests, 4th Revision (1995)
2. The United States Pharmacopeia/National Formulary USPXXII/NFXVII, U.S. Pharmacopeial Convention Inc., Rockville, Maryland (1990)
3. Indian Pharmacopeia. Publications and Information Directorate. Third Edition, New Delhi, India (1985)