

PRODUCT INFORMATION

Fluid Thioglycollate Medium

Cat. No. F06-101



ALPHA[™]
BIOSCIENCES

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DESCRIPTION

Fluid Thioglycollate Culture Media is used for determining the presence of bacteria in normally sterile materials. This medium conforms to the formula specified by USP and AOAC. Fluid Thioglycollate Medium was designed by Brewer for rapid cultivation of anaerobes and aerobes, and is capable of supporting growth of a great variety of fastidious organisms. Sodium thioglycollate lowers the oxidation-reduction potential of the media as well as neutralizes the antibacterial activity of mercurial compounds. Resazurin indicates the status of oxidation. The small amount of agar stabilizes the medium against convection currents, which maintains anaerobiosis in the lower depths of the tube. Dextrose is added as a carbohydrate source.

PREPARATION

Mix 29.8g of medium in one Liter of purified water until evenly dispersed. Heat with repeated stirring until boiling to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. After storage of the medium, if the medium demonstrates oxidation (color change of indicator), reheat the medium once in boiling water or steam bath.

QUALITY CONTROL SPECIFICATIONS

1. The powders are homogeneous, free flowing and light beige.
2. Visually the prepared medium is yellow in color with upper 10% or less light to medium red upon standing, and clear to trace hazy.
3. Expected cultural response after 72 hours at 35.0°C ± 2.0°C

Organism:

Bacillus subtilis ATCC® 6633
Bacteroides vulgatus ATCC® 8482
Candida albicans ATCC® 10231
Clostridium perfringens ATCC® 13124
Clostridium sporogenes ATCC® 11437
Clostridium sporogenes ATCC® 19404
Micrococcus luteus ATCC® 9341
Neisseria meningitidis ATCC® 13090
Pseudomonas aeruginosa ATCC® 27853
Staphylococcus aureus ATCC® 6538
Streptococcus pyogenes ATCC® 19615

Result:

Growth
Growth
Growth
Good to Excellent Growth
Good to Excellent Growth
Good to Excellent Growth
Poor to Good Growth
Poor to Good Growth
Growth
Growth
Poor to Excellent Growth

Formula* per Liter:

Yeast Extract.....	5.0g
Enzymatic Digest of Casein.....	15.0g
Sodium Thioglycollate.....	0.5g
Resazurin.....	0.001g
Dextrose.....	5.5g
Sodium Chloride.....	2.5g
L-Cystine.....	0.5g
Agar.....	0.75g

Final pH: 7.1 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30.0°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original light beige.

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