

## PRODUCT INFORMATION

Fluid Thioglycollate Medium

Cat. No. F06-101

### 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 an 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.

### FORMULA (g/L)

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

Final pH: 7.1 ± 0.2 at 25 °C

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

### PREPARATION

Mix 29.8 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute 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 powder is homogenous, free flowing and 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 ± 2 °C.

ORGANISM	RESULT
<i>Bacillus subtilis</i> ATCC 6633	Good Growth
<i>Bacteroides vulgatus</i> ATCC 8482	Good Growth
<i>Candida albicans</i> ATCC 10231	Good Growth
<i>Clostridium perfringens</i> ATCC 13124	Good Growth
<i>Clostridium sporogenes</i> ATCC 11437	Good Growth
<i>Neisseria meningitidis</i> ATCC 13090	Good Growth
<i>Staphylococcus aureus</i> ATCC 6538	Good Growth
<i>Streptococcus pyogenes</i> ATCC 19615	Good Growth

## STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°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 color.