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FLUID THIOGLYCOLLATE MEDIUM

TT137: FLUID THIOGLYCOLLATE MEDIUM
Appearance: 9 ML, LIGHT AMBER, VERY SLIGHTLY OPALESCE

Intended Use and Principles of the Procedure – fluid thioglycolate medium (FTM) is used for sterility testing in a laboratory setting according to USP/EP.. FTM is prepared according to the formula specified by FDA and according to USP/ EP.

Application- FTM supports growth for a variety of fastidious microorganisms. Nitrogen, Carbon and Vitamin sources are provided by Enzymatic digest of Casein and Yeast extract. Sodium Thioglycollate and L-Cystein lower oxidation-reduction potential of the medium by removing oxygen. Sulfhydryl groups (-SH) neutralize antibacterial effect of mercurial preservatives, as a result- FTM is useful for testing material containing heavy metals. The indicator for oxidation is achieved by Resazurin. Resazurin turns pink when oxidized.

FTM Approximate Formula (Grams/Liter)

Tryptone 15, L-Cystine 0.5, Glucose 5.5, Yeast extract 5, Sodium Chloride 2.5, Sodium Thioglycollate 0.5, Rasazurin 0.001, Agar 0.75.

QC performance

pH at 23±2ºC - 6.9-7.3

GPT : 10-100 cfu

Test	ATCC No.	Incubation Temp. (°C)	Incubation duration
Staphylococcus aureus	6538	30-35	72 hours
Kocuria rhizophila (M. luteus)	9341	30-35	72 hours
Clostridium sporogenes	11437	30-35	72 hours
Pseudomonas aeruginosa	9027	30-35	72 hours
Candida albicans	10231	30-35	up to 5 days
Clostridium perfringens	13124	33-37	18-24 hours

Storage 15 – 25 °C

Warning and Precautions - For laboratory use only.

Limitations of the Procedure

Due to nutritional variation growth may fail or be poor for some strains on this medium.