

Media Type - Fluid Thioglycollate Medium (FTM)

Technical characteristics:

The medium's complex formulation includes a small amount of agar and resazurin. The agar controls the ingress of oxygen within the medium to maintain anaerobiosis in the lower part of the medium. The resazurin is an indicator dye which in the presence of oxygen turns pink.

Typical formulation:	g/ltr
Yeast extract	5.0
Tryptone	15.0
Glucose	5.5
Sodium thioglycollate	0.5
Sodium chloride	2.5
L-cystine	0.5
Resazurin	0.001
Agar	0.75

Fresh pH 7.2 ±0.2

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Organisms & morphology

Fluid Thioglycollate Medium will support growth of a wide range of aerobic and anaerobic bacteria if incubated under the right conditions. A typical set of control organisms are:

Organism:	Reaction
Staphylococcus aureus	Turbid/ visible growth
Staphylococcus epidermidis	Turbid/ visible growth
Escherichia coli	Turbid/ visible growth
Bacillus subtilis	Turbid/ visible growth
Pseudomonas aeruginosa	Turbid/ visible growth
Candida albicans	Turbid/ visible growth
Clostridium sporogenes	Turbid/ visible growth

Fresh pH 7.2 ±0.2

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Regulatory references: FTM is a Harmonised Pharmacopoeia medium and as such is mentioned in the BP/EP/JP, as well as the US Pharmacopoeia.

EP Chapter Ref 2.6.1 Sterility testing			
Recommended Culture Media	Property	Micro-organisms	Incubation Time & Temp
Fluid Thioglycollate Medium	Growth promotion	Clostridium sporogenes Pseudomonas aeruginosa Staphylococcus aureus	30-35°C for < 3 days

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