

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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