

Fluid Thioglycollate Medium

Product No. CP801

Intended Use

Used for sterility testing in drugs.(CP)

Specification 250 g

| Ingredients | (g/L) |
|-----------------------------|--------------|
| Pancreatic Digest of Casein | 15.0 |
| Yeast Extract | 5.0 |
| Dextrose | 5.0 |
| Sodium Chloride | 2.5 |
| L-Cystine | 0.5 |
| Sodium Thioglycollate | 0.5 |
| Resazurin | 0.001 |
| Agar | 0.75 |

(pH 7.1 ± 0.2)

Additional Reagents

No

Principle and Interpretation

Dextrose, peptone, L-cystine and yeast extract provide the growth factors necessary for bacterial replication. Sodium chloride provides essential ions. Sodium thioglycollate is a reducing agent that prevents the accumulation of peroxides which are lethal to some microorganisms. The L-cystine is also a reducing agent, since it contains sulfhydryl groups which inactivate heavy metal compounds and maintain a low redox potential, thereby supporting anaerobiosis. Resazurin is an oxidation-reduction indicator, being pink when oxidized and colorless when reduced. The small amount of agar assists in the maintenance of a low redox potential by stabilizing the medium against convection currents, thereby maintaining anaerobiosis in the lower depths of the medium.

Directions

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Suspend 29.25 g of the powder in 1 L of purified water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15 minutes.

Precautions

No

Quality Control

| Microorganisms | Inoculum (CFU) | Reference Medium | Method | Incubation | Result |
|--|----------------|------------------|------------------|----------------------|----------------|
| <i>Staphylococcus aureus</i> CMCC(B) 26003 | ≤100 | FT | Growth Promotion | 30-35°C, ≤ 3 days | visible growth |
| <i>Pseudomonas aeruginosa</i> CMCC(B) 10104 | | | | | |
| <i>Clostridium sporogenes</i> CMCC(B) 64941 | | | | | |
| Negative controls | | | | | Negative |

Storage Conditions

Keep container tightly closed and store in a dry place at 2-25°C.

Shelf Life

3 years.

Related Products

| Product No. | Product Name | Specification |
|-------------|--------------------------------------|---------------|
| CP801 | Fluid Thioglycollate Medium | 250 g |
| GCP801 | Fluid Thioglycollate Medium(Granule) | 250 g |

For laboratory use in industry or R&D purpose. Not for drug, household or other uses.