**Fluid Thioglycollate MediumⅡ**

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| **Product No.** | **Product Category** | **Specification** |
| HCM026 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the cultivation of aerobic and anaerobic micro-aerobic and sterility testing of drugs, biological products or other samples.

**Principle and Interpretation**

Dextrose, pancreatic digest of casein, yeast extract, L-cystine provide the growth factors necessary for bacterial multiplication. L-cystine and sodium thioglycollate allows Clostridium to grow in this medium even under aerobic conditions. Also the small amount of agar used in the medium favors the growth of aerobes as well as anaerobes in the medium, even if sodium thioglycollate is deleted from the medium. Sodium thioglycollate act as a reducing agent and neutralizes the toxic effects of mercurial preservatives and peroxides formed in the medium, thereby promoting anaerobiosis, and making the medium suitable to test materials containing heavy metals. Any increase in the oxygen content is indicated by a colour change of redox indicator, resazurin to red. The small amount of agar helps in maintaining low redox potential for stabilizing the medium.

**Formulation**

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| **Ingredients** | **/liter** |
| L-Cystine | 0.5g |
| Sodium chloride | 2.5g |
| Dextrose anhydrous | 5.0g |
| Yeast extract | 5.0g |
| Pancreatic digest of casein | 15.0g |
| Sodium thioglycollate | 0.5g |
| Resazurin sodium | 0.001g |
| Agar | 0.75g |
| pH7.1±0.2 at 25°C | |

**Preparation**

Suspend 29.3g in 1 L of distilled or deionized water ,heated to boiling stirring until completely dissolved, dispensing into tubes, autoclave at 121 ℃ for 15min. If more than 1/3 of the medium is pink, reheat(100℃) it before use to drive off dissolved oxygen. If all the medium is pink, do not use.

**Quality Control**

Cultural characteristics observed after an incubation at 35-37°C for 24h

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| **Quality control strains** | **Growth** |
| *Staphylococcus aureus* ATCC6538 | Good ,broth turbid |
| *Pseudomonas aeruginosa* ATCC9027 |
| *Clostridium sporogenes* ATCC19404 |

**Storage and Shelf Life**

2-30℃，Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

**Precautions**

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort

2. Keep container tightly closed after using to prevent clumping.

**Waste Disposal**

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

**Revision**

On June 14, 2024

**References**

USP.

EP.