

Fluid Thioglycollate Medium

Cat: RL100110

Specification: 15*300ml / 15*500ml / 24*205ml

Storage: Store at 2-25°C, avoid light

Introduction:

I. Product use:

Used for cultivating aerobic bacteria, micro-aerobic bacteria and anaerobic bacteria, and also used for sterility test of pharmaceutical biological products.

II. Inspection principle:

Pancreatic cheese peptone and yeast extract powder provide carbon and nitrogen sources, vitamins and growth factors; Glucose provides fermentable sugars are more conducive to growth; Sodium chloride maintains a balanced osmotic pressure; Sodium thioglycolate and L-cystine can effectively reduce the REDOX potential and prevent the accumulation of peroxide from causing toxicity to some bacteria. At the same time, the thiohydrogen group has the antibacterial effect of deactivating the preservatives containing arsenic, mercury and other heavy metals. The coagulation of a small amount of Agar can prevent the diffusion of carbon dioxide, oxygen and reduction products; Azulin is a REDOX indicator, pink in oxidation state and colorless in reduction state.

III. Composition: g/L

Pancreatic cheese peptone: 15.0

L-cystine: 0.5

Anhydrous glucose: 5.0

Yeast paste powder: 5.0

Sodium chloride: 2.5

Sodium thioglycolate: 0.5

Azure: 0.001

Agar: 0.75

Purified water: 1000mL

pH 7.1±0.2

IV. Instructions for use: (for reference only)

Wipe the outer bag with disinfectant, open the outer plastic bag, and use it under the A-level laminar flow in the purification workbench/biosafety cabinet, strictly aseptic operation.

V. Quality Control:

1. Sensory, physical and chemical indicators: light yellow, clear and sediment-free liquid, pH value of 7.1±0.2.

2. Biological indicators: The following quality control strains were inoculated and cultured at 30-35°C for 24 hours, and the observation results are shown in the following table:

Index	Quality control	Standard value	Characteristic reaction
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	strain and number		
Growth rate	Staphylococcus aureus CMCC26003	Comparable to the control of the China National Institute of Food and Drug Control.	turbidity in the upper part of the broth
	Pseudomonas aeruginosa CMCC10104		turbidity in the upper part of the broth
	Bacillus subtilis CMCC63501		turbidity in the upper part of the broth
	Clostridium sporogenes CMCC64941:		turbidity at the bottom of the broth

VI. Note:

1. If any leakage is found, the bottle should not be used. Opened sterile liquid culture medium and buffer solution should be used up at one time and should not be reused after being sealed.

VII. Waste disposal:

After testing, the contaminated items are placed under high-pressure sterilization at 121°C for 30 minutes.