OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Cary-Blair Medium Base
(Transport Medium w/o Charcoal)

Principle

Cary and Blair medium are effective for maintaining the viability of wide variety of microorganisms like Salmonella and Shigella in fecal samples, Vibrio cultures. Medium is currently recommended for fecal and rectal samples. The media is composed of sodium thioglycollate, disodium phosphate, calcium chloride, sodium chloride and agar. In the formulations, calcium chloride and sodium chloride provide essential ions that help maintain osmotic balance while controlling permeability of bacterial cells. Disodium phosphate provides buffering capabilities. Sodium thioglycollate suppresses oxidative changes and provides a reduced environment. The pH of the medium is relatively alkaline which minimizes the bacterial damage due to the formation of acid. Phenol red is act as pH indicator which is red at alkaline pH, while yellow at acidic pH Agar is a solidifying agent. For anaerobic formulation the media can be fortified with resazurin and Lcysteine.

Use: For the collection and shipment of clinical specimen.

Contents*

Ingredients	Gram/Litre
Sodium Thioglycollate	1.500
Disodium Hydrogen Phosphate	1.100
Sodium Chloride	5.000
Calcium Chloride	0.100
Phenol red	0.018
Agar	5.000
pH at 25°C	8.4 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 12.70 grams in 1000 ml distilled water. Distribute in test tube and sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

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Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Light beige to pink colored free flowing, homogeneous powder**
Reaction of 1.27% solution	**8.4 ±0.2 at 25 ˚C**
pH	**8.20- 8.60**
Color and clarity of ready medium	**Red colored clear opalescent semi solid gel**
Gelling strength	**Firm comparable with 0.50% agar gel**
Negative control	**Performed using sterile distilled water**

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Different Microbial Response

Organism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation period
Escherichia coli	8739	50-100	Luxurious	33-37 °C	18-24 hrs
Salmonella Typhimurium	14028	50-100	Luxurious	33-37 °C	18-24 hrs
Vibrio cholerae	15784	50-100	Luxurious	33-37 °C	18-24 hrs
Klebsiella aerogenes	13048	50-100	Luxurious	33-37 °C	18-24 hrs
Shigella flexneri	9199	50-100	Luxurious	33-37 °C	18-24 hrs

Storage and Shelf Life: **The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.**

Disposal: **To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.**

Reference

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