**OXFORD LAB FINE CHEM LLP**
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# TECHNICAL DATA SHEET

# Reinforced Clostridial Broth (Harmonized)

## Principle

**Reinforced medium for clostridia is used for enumerating and cultivating *Clostridia*. It is also recommended by USP, IP and EP for microbial limit testing of pharmaceutical products and raw material used in pharmaceutical industries. Media is composed of meat extract (equivalent to beef extract), peptone, yeast extract, soluble starch, glucose monohydrate, cysteine hydrocholoride, sodium chloride, sodium acetate and small quantity of agar. Meat extract, peptone, yeast extract, starch, and cysteine hydrochloride provide nutrients and co-factors required for growth of *Clostridia*. In addition to that cysteine hydrochloride acts as reducing agent and soluble starch absorb toxic metabolites from the medium. Glucose monohydrate is included in the medium as an energy source. Sodium chloride maintains osmotic equilibrium. Sodium acetate acts as buffering agent. Less quantity of agar makes the medium semi solid and helps in maintaining anaerobic conditions.**

**Use: For isolation, cultivation and enumeration of Clostridia species, highly nutritive for Clostridium sporogenes and other anaerobes.**

## Contents*

| Ingredients | Gram/Litre |
|---|---|
| Meat Extract# | 10.00 |
| Peptone | 10.00 |
| Yeast Extract | 3.00 |
| Soluble Starch | 1.00 |
| Glucose Monohydrate | 5.00 |
| Cysteine Hydrocholoride | 0.50 |
| Sodium Chloride | 5.00 |
| Sodium Acetate | 3.00 |
| Agar | 0.50 |
| pH at 25˚C | 6.8 ±0.2 |

*** Formula adjusted for optimum performance and parameters # Equivalent to beef extract**

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**Directions: Dissolve 38.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in petri plates and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.**

## Specimens' types analyzed

**Pharmaceutical samples, clinical and non-clinical samples etc.**

## Precautions to be taken

**These plant tissue culture 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 colored free flowing, homogeneous powder.** |
| **Reaction of 3.8% solution** | **6.8 ±0.2 at 25 ˚C.** |
| **pH** | **6.60- 7.00.** |
| **Gelling** | **Firm comparable with 0.5% agar gel.** |
| **Color and clarity of ready medium** | **Light amber colored opalescent medium.** |
| **Growth Promotion properties** | **Best at ≤ 100 CFU at 32-37 ºC for 18-72 h.** |
| **Indicative properties** | **Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h.** |
| **Negative control** | **Performed using sterile distilled water.** |

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**Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate the plates at 35±2°C in an anerobic condition for 24-48 hours.**

| Organism | ATCC | Inoculum (CFU) | Growth |
|---|---|---|---|
| *Clostridium sporogenes* | 11437 | 50-100 | Luxuriant |
| *Clostridium perfringens* | 3624 | 50-100 | Luxuriant |
| *Bacteroides vulgatus* | 8482 | 50-100 | Luxuriant |

**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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