

TECHNICAL DATA SHEET

Differential Reinforced Clostridial Broth Base

Principle

Differential Reinforced Medium for Clostridia is used for cultivating *Clostridia*. Media is composed of peptic digest of animal tissue, meat extract, yeast extract, soluble starch, dextrose, cysteine hydrochloride, sodium acetate. Peptic digest of animal tissue, meat extract, 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. Dextrose is included in the medium as an energy source. Sodium acetate acts as buffering agent.

Use: For cultivation of Clostridia from water samples.

Contents*

Ingredients	Gram/Litre
Peptic digest of animal tissue	10.00
Meat Extract#	10.00
Yeast Extract	1.50
Starch	1.00
Sodium acetate	5.00
Dextrose	1.00
L-Cysteine hydrochloride	0.50
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

Equivalent to Beef extract

Directions: Dissolve 29.00 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 add 0.5 ml filter sterilized solution, prepared by mixing equal volumes of 4% w/v solution of sodium sulphite and 7% w/v ferric citrate, to 25 ml of single strength medium or 0.4 ml and 2 ml to 10 ml and 50 ml of double strength medium respectively. Mix well and inoculate test sample aseptically.

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Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com



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 colored free flowing, homogeneous powder
Reaction of 2.9% solution	7.2 ±0.2 at 25 °C
pH	7.00- 7.40
Color and clarity of ready medium	Light amber colored opalescent medium
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 3-7 days
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 3-7 days
Negative control	Performed using sterile distilled water

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Different Microbial Response: Cultural characteristics observed in an anaerobic condition after an incubation at 35±2°C for 5-7 days.

Organism	ATCC	Inoculum (CFU)	Growth	H ₂ S Production
<i>Clostridium sporogenes</i>	11437	50-100	Luxuriant	Positive reaction, blackening of medium
<i>Clostridium perfringens</i>	3624	50-100	Luxuriant	Positive reaction, blackening of medium

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

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. CRC press.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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