OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Dey-Engley Neutralizing Broth w/o Bromo Cresol Purple

Principle

Dey-Engley Neutralizing broth without dye is formulated as per the procedure described by Engley and Dey (1970). Media consist of Tryptone, yeast extract, dextrose, sodium thioglycollate, sodium thiosulphate, sodium bisulphite, Lecithin, and polysorbate 80. Tryptone and yeast extract provides nitrogen and carbon source, vitamins and other essential nutrients like vitamins and cofactors. Dextrose is an energy source or carbon source. The sodium thioglycollate, sodium thiosulphate, sodium bisulphite and lecithin, act as neutralizing substances for almost all the active products used as antiseptics and disinfectants in commercial products. Sodium thioglycollate neutralizes mercurial; sodium thiosulfate neutralizes iodine and chlorine and Sodium bisulfite neutralizes aldehydes. While lecithin neutralizes quaternary ammonium compounds. The polysorbate 80 is used as a non-ionic surface-active agent, which neutralizes substituted phenolics compounds. In medium the lecithin is used in high concentration for neutralization of chemicals the media become bit hazy and turbidity cannot be measured by spectrophotometer. Consequently, dextrose is added to the medium.

Use: For neutralization of antiseptics and disinfectants in determining its bactericidal activity.

Contents*

Ingredients	Gram/Litre
Tryptone	5.00
Yeast Extract	2.50
Dextrose	10.00
Sodium Thioglycolate	1.00
Sodium Thiosulphate	6.00
Sodium Bisulfate	2.50
Polysorbate 80	5.00
Lecithin	7.00
pH at 25˚C	7.6 ±0.2

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

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Directions: Dissolve 39.00 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 °Cand distribute aseptically in desired and inoculate the test sample.

Specimens types analyzed

Food and dairy samples; Environmental samples, cosmetic, pharmaceutical 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 to medium beige colored free flowing, homogeneous powder**
Reaction of 3.9% solution	**7.5 ±0.2 at 25 ˚C**
pH	**7.30- 7.70**
Color and clarity of ready medium	**Light yellow colored, opalescent solution**
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

Organism	ATCC	Growth	Incubation Temperature	Incubation period
Staphylococcus aureus	**25923**	**Luxurious**	**33-37°C**	**18-48 hours**
Bacillus spizizenii	**6633**	**Luxurious**	**33-37°C**	**18-48 hours**
Pseudomonas aeruginosa	**27853**	**Luxurious**	**33-37°C**	**18-48 hours**
Salmonella typhi	**6539**	**Luxurious**	**33-37°C**	**18-48 hours**
Escherichia coli	**8739**	**Luxurious**	**33-37°C**	**18-48 hours**
Candida albicans	**10231**	**Luxurious**	**23-27°C**	**48-72 hours**

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. **American Public Health Association (1978), *Standard Methods for the Examination of Dairy Products*, 14th Ed., Washington D.C.**
2. **Baird R.B., Eaton A.D., and Rice E.W., (Eds.), (2015), *Standard Methods for the Examination of Water and Wastewater, Wastewater*, 20th Ed., American Public Health Association, Washington, D.C.**
3. ***Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
4. **Jorgensen,J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock. D.W. (2015)*Manual of Clinical Microbiology*, 11th Edition. Vol. 1**

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