OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Range of
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TECHNICAL DATA SHEET

Tryptone Yeast Extract Agar w/BCP

Principle

Tryptone yeast extract agar with BCP is recommended by ISO 7402:1993 for the isolation and enumeration of *Enterobacteriaceae*. Media is composed of casein enzymatic hydrolysate and yeast extract, providing nitrogen, carbon, vitamins, and other essential growth factors. Sodium chloride maintains osmotic balance. Glucose is a fermentable carbohydrate. Bromocresol purple is a pH indicator, and gar is a solidifying agent.

Use: For isolation and enumeration of Enterobacteriaceae and Bacillus cereus.

Contents*

Ingredients	Gram/Litre
Casein enzymic hydrolysate	10.000
Yeast Extract	1.500
Sodium chloride	5.000
Glucose	10.000
Bromocresol purple	0.015
Agar	15.00
pH at 25˚C	7.0±0.2

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

Directions: Dissolve 41.52 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 or tube for slant preparation. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Water samples

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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	**Greenish beige color, free flowing, homogeneous powder**
Reaction of 4.15% solution	**7.0±0.2 at 25˚C**
pH	**6.80-7.20**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Purple colored, slightly opalescent gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-24 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Prepare medium as per label directions, inoculate and incubate at 35±2°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Color of medium
Escherichia coli	**8739**	**50-100**	**Luxuriant**	**Yellow**
Escherichia coli	**25922**	**50-100**	**Luxuriant**	**Yellow**
Klebsiella aerogenes	**13048**	**50-100**	**Luxuriant**	**Yellow**
Salmonella typhimurium	**14028**	**50-100**	**Luxuriant**	**Yellow**
Salmonella enteritidis	**13076**	**50-100**	**Luxuriant**	**Yellow**

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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. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **ISO 7402:1993, Microbiology - General guidance for the enumeration of Enterobacteriaceae without resuscitation - MPN technique and colony-count technique**

Disclaimer:

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