OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Carbohydrate Consumption Broth Base

Principle

The carbohydrate consumption broth base consists of protease peptone, meat extract, sodium chloride and bromocresol purple. Protease peptone and meat extract provide nitrogen, amino acids and essential elements for the growth. Sodium chloride maintains the osmotic balance. Bromocresol purple is pH indicator, which turns yellow in color due to carbohydrate fermentation. The differentiation can be achieved by addition of particular carbohydrate and its fermentation. The commonly used carbohydrate for differentiation are glucose, mannitol, ribose, rhamnose, xylose, etc.

Use: For the cultivation and differentiation of Listeria species.

Contents*

Ingredients	Gram/Litre
Protease Peptone	10.00
Meat Extract#	1.00
Sodium Chloride	5.00
Bromocresol Purple	0.10
pH at 25˚C	6.8 ±0.2

*** Formula adjusted for optimum performance and parameters**
 # Equivalent to Beef Extract

Directions: Dissolve 16.00 grams in 990 ml distilled water. Boil to dissolve the medium completely and distribute 9.0 ml of media in test tubes containing inverted Durham's tube. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45 °C and aseptically add 1.0 ml of sterile carbohydrate solution (0.5%), mix well and inoculate test sample.

Specimens types analyzed

Food and dairy samples and water samples, pharmaceutical samples, clinical and non-clinical samples etc.

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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	**Light beige colored free flowing, homogeneous powder**
Reaction of 1.6% solution	**6.8 ±0.2 at 25 ˚C**
pH	**6.60- 7.00**
Color and clarity of ready medium	**Purple colored clear opalescent solution**
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 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-48 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	w/o carbohydrate		with Rhamnose	
			Acid	Gas	Acid	Gas
Listeria monocytogenes	13932	Luxuriant	Negative	Negative	Positive	Negative
Escherichia coli	8739	Luxuriant	Negative	Negative	Positive	Positive
Staphylococcus aureus	25923	Luxuriant	Negative	Negative	Negative	Negative

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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. **American Public Health Association, (1978)** ***Standard Methods for the Examination of Dairy Products*****, 14th Ed., Washington D.C.**
2. **Atlas, R. M. (2005).** ***Handbook of media for environmental microbiology*****. CRC press.**
3. ***Difco Manual*** **(1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**

Disclaimer:

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