OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Brilliant Green Phenol Red Lactose Agar

Principle

This medium is formulated according to Edel and Kampelmacher (1969) for selective isolation of Salmonella species from water and is recommended by ISO specifications ISO 6340; 1995 / IS15187; 2002. Brilliant green phenol red lactose agar is composed of meat extract, peptone, disodium phosphate, sodium phosphate, lactose, sucrose, phenol red, brilliant green and agar. Meat extract and peptone provides nitrogen and carbon, vitamins and other growth factors. Lactose and sucrose are source of carbohydrates. Phosphate buffers the medium. Brilliant green inhibits both gram positive and negative bacteria except *Salmonella spp.* Phenol red is pH indicator. Agar is solidifying agent.

Use: For detection and confirmation of Salmonella species from water samples.

Contents*

Ingredients	Gram/Litre
Meat extract	5.000
Peptone	5.000
Disodium phosphate	1.000
Sodium phosphate	0.600
Lactose	10.000
Sucrose	10.000
Phenol Red	0.090
Brilliant Green	0.005
Agar	15.000
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 46.70 grams in 1000 ml distilled water. Boil to dissolve the medium completely (AVOID OVERHEATING) Do not autoclave the medium and cool it to 42-45 °C and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

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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	**Pinkish beige colored free flowing, homogeneous powder**
Reaction of 4.67% 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	**Greenish brown colored opalescent gel**
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: Cultural characteristics observed after incubation at 35±2°C for 18-24 hours.

Organism	ATCC	Growth	Recovery	Colony color
Salmonella typhimurium	**14028**	**Luxuriant**	**≥ 60%**	**Pink to red or pink white with red sounding**
Salmonella enteritidis	**13076**	**Luxuriant**	**≥ 60%**	**Pink to red or pink white with red sounding**
Escherichia coli	**8739**	**None to poor**	**≤ 10%**	**Yellow-green**

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. **Edel, W., & Kampelmacher, E. H. (1969). Salmonella isolation in nine European laboratories using a standardized technique. Bulletin of the World Health Organization, 41(2), 297–306.**
4. **Water Quality- Detection of Salmonella species, International Organization for Standardization, ISO 6340-1995/ IS 15187:2002**

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