OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Malachite Green Broth

Principle

Malachite green broth is used for selective enrichment of *Pseudomonas aeruginosa.* The media is composed of Meat extract, peptic digest of animal tissue, Dipotassium phosphate and malachite green. Meat extract and peptic digest of animal tissue serve as sources of essential nutrients required for bacterial metabolism. Dihydrogen potassium phosphate serves to buffering agent. Malachite green makes the medium selective for *P. aeruginosa* by inhibiting the growth of the associated flora.

Use: For cultivation and selective enrichment of Pseudomonas Aeruginosa.

Contents*

Ingredients	Gram/Litre
Peptic digest of animal tissue	15.000
Meat extract	9.000
Dipotassium phosphate	1.100
Malachite green	0.030
pH at 25˚C	7.0 ±0.2

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

Directions: Dissolve 25.20 g in 1000 ml of distilled water. Boil the medium to dissolve all the ingredients. Distribute into test tubes and Autoclave at 121°C for 15 minutes and inoculate test sample aseptically.

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.

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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 to greenish yellow colored, free flowing, homogeneous powder**
Reaction of 2.52% solution	**7.0 ±0.2 at 25 ˚C**
pH	**6.80- 7.20**
Color and clarity of ready medium	**Greenish blue colored clear opalescent solution without any precipitate**
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**

Different Microbial Response

Organism	ATCC	Inoculum CFU	Growth	Incubation
Pseudomonas aeruginosa	**27853**	**50-100**	**Luxuriant**	**33-37 °C, 18-48 h**
Escherichia coli	**8739**	**50-100**	**Inhibited**	**33-37 °C, 18-48 h**

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.

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Reference

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2. ***Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
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Disclaimer:

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