OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Ashby's Sucrose Broth

Principle

Ashbys sucrose broth is described by Subba Rao (1977) for isolation of a non-symbiotic nitrogen fixing bacteria, *Azotobacter*. Ashby's media composed of Sucrose, dipotassium phosphate, magnesium sulphate, sodium chloride, potassium sulphate, calcium carbonate. Sucrose provides carbon source and atmospheric nitrogen serves nitrogen source. Dipotassium phosphate is buffering agent. The other salts provide various essential ions required for promoting growth of *Azotobacter*. The presence of calcium carbonate stimulate growth and increase availability of phosphorus, sulphur and magnesium to the organisms.

Use: For growth and maintenance of Azotobacter species.

Contents*

Ingredients	Gram/Litre
Sucrose	20.00
Dipotassium Phosphate	0.20
Magnesium Sulphate	0.20
Sodium Chloride	0.20
Potassium Sulphate	0.10
Calcium Carbonate	5.00
pH at 25˚C	7.4 ±0.2

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

Directions: Dissolve 25.70 grams in 1000 ml distilled water. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens types analyzed

Soil and water 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	**Off white colored free flowing, homogeneous powder**
Reaction of 2.57% solution	**7.4±0.2 at 25 ˚C**
pH	**7.20- 7.60**
Color and clarity of ready medium	**Milky white colored opalescent solution with slight precipitate.**
Growth Promotion properties	**Best at ≤ 100 CFU at 25-30 ºC for 3-5 days**
Indicative properties	**Optimum at ≤ 100 CFU at 25-30ºC for 3-5 days**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Cultural characteristics observed after incubation at 25-30°C for 5 days.

Organism	ATCC no.	Inoculum (CFU)	Growth
Azotobacter chroococcum	**7724**	**50-100**	**Luxurious**

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.

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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. Subba Rao, (1977), Soil Microorganisms and Plant Growth, Oxford and IBH Publishing Co., India.

Disclaimer:

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