

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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Range of
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TECHNICAL DATA SHEET **Aleksandrow Broth (KSB)**

Principle

Aleksandrow broth is consist of salts like magnesium sulphate, calcium carbonate and potassium alumino silicate, ferric chloride which support the growth of potassium solubilizing bacteria by providing the essential minerals. Dextrose is carbon and energy source. The potassium alumino silicates serve as inorganic source of potassium salts.

Use: For enrichment of potassium solubilizing bacteria from soil samples.

Contents*

Ingredients	Gram/Litre
Magnesium Sulphate	0.500
Calcium Carbonate	0.100
Potassium Alumino Silicate	2.000
Ferric Chloride	0.005
Calcium Phosphate	2.000
Dextrose	5.000
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 9.60 grams in 1000 ml distilled water, check and adjust the pH if required so that after sterilization it is 7.2±0.2. 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 inoculate test sample aseptically.

Specimens' types analyzed

Pure cultures, agriculture isolates and soil samples etc.

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Precautions to be taken

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 0.96% solution	7.2 ±0.2 at 25 °C
pH	7.00- 7.40
Color and clarity of ready medium	Off white colored opaque solution with white precipitate
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 35±2°C for 24-48 hours.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant
<i>Potassium solubilizing</i> (Lab isolate)	--	50-100	Luxuriant

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. *Atlas, R. M. (2004). Handbook of microbiological media. CRC press.*
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.*
4. *Subba Rao, (1977), Soil Microorganisms and Plant Growth, Oxford and IBH Publishing Co., India.*

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