OXFORD LAB FINE CHEM LLP
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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

King's Medium B Base

Principle

Kings B medium is described by King et al., (1954), for non-selective isolation of pigment producing *Pseudomonas Species.* Media is composed of proteose peptone, dipotassium hydrogen phosphate, magnesium sulphate and agar. Proteose peptone provide nitrogen and other necessary trace nutrients for growth of bacteria. Dipotassium phosphate and magnesium sulphate enhances pigment production. Agar is solidifying agent. The glycerol serves as carbon source.

Use: For the non-selective isolation, cultivation and pigment production by Pseudomonas species.

Contents*

Ingredients	Gram/Liter
Proteose Peptone	20.00
Dipotassium hydrogen phosphate	1.50
Magnesium sulphate	1.50
Agar	20.00
pH at 25˚C	7.2 ±0.2

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

Directions: Dissolve 24.10 grams in 1000 ml distilled water. Boil to dissolve the medium completely. 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.

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	**Beige colored free flowing, homogeneous powder**
Reaction of 4.3% solution	**7.2 ±0.2 at 25 ˚C**
pH	**7.00- 7.40**
Gelling	**Firm comparable with 2% agar gel**
Color and clarity of ready medium	**Light amber 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**

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Pigment production
Pseudomonas aeruginosa	27853	Luxuriant	≥ 70%	Greenish yellow
Pseudomonas aeruginosa	10145	Luxuriant	≥ 70%	Greenish yellow

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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3. **King, E. O., M. K. Ward, and E. E. Raney. (1954). Two simple media for the demonstration of pyocyanin and fluorescein. J. Lab.Clin. Med. 44:301.**

Disclaimer:

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