

K5165 KB Medium

Medium: **General bacterial medium**
 Purpose: **Subculturing of numerous bacterial species**



KB (King's B) is a non-selective medium and used to subculture suspected isolates. Addition of antibiotics such as cephalaxine will make the medium (mKB) suitable for the detection of several Pseudomonads such as *Pseudomonas syringae* pv. *syringae* and *Pseudomonas savastanoi* pv. *phaseolicola* (see photo).

King's B medium is amongst others used for detection and subculturing of fluorescent pseudomonads from seeds and plants. Pathovars of *Pseudomonas syringae* produce a blue fluorescent pigment that becomes visible under UV light.

**COMPOSITION OF MEDIA
K5165: KB MEDIUM**

COMPOUND	GRAM/LITER
Agar	15.0
Di-potassium hydrogen phosphate (K ₂ HPO ₄)	1.5
Magnesium sulphate anhydrous (MgSO ₄ anhydrous)	0.73
Proteose	20.0

METHOD

- Dissolve 37.2 grams of ingredients in distilled water, adjust volume to 980 ml and adjust pH to 7.5.
 - Add 20 ml of 50% glycerol.
 - Autoclave the solution (121 °C, 15 psi, 15 minutes).
 - Allow medium to cool down to ca. 45 °C – 50 °C.
 - Mix gently to avoid air bubbles and pour plates (15-20 ml per 9.0 cm plate).
- **Optional: addition of 50 mg cephalaxin and 35 mg nystatin per liter to allow selectivity for pseudomonads (mKB).**

Reference:

King, E.O. Ward, M.K. and Raney, D.E. 1954. Two simple media for the demonstration of pyocyanin and fluorescein. J. Lab. Clin. Med. 44:301-307.

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K5165.1000 1 kg

For prepared and ready to use plates of this medium contact:
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