K5013
King's B Medium

Synonym: KB, KB Agar, King's Agar B, King's Base Medium

Properties:

Form:	Powder
Appearance:	Off-White to Tan
Application:	Phytopathology, Microbiology, Seed Testing, Plant Defense & Immunity
Solubility:	Partially Soluble in Cold Water, Soluble in Boiling Water
Typical Working Concentration:	37.23 g/L
Storage Temp:	Room Temperature
Other Notes:	Recommended addition of 10-15 mL/L of Glycerol (Prod # G381) or another carbon source prior to inoculation.

Formula (mg/L):

Peptone	20,000
Potassium Phosphate, Dibasic	1500
Magnesium Sulfate (Anhydrous)	730
Agar	15,000

Application Notes:

A general microbiology growth medium that has been used for the growth of microorganisms (King *et al.* 1954). It is most often used for the culture of *Pseudomonas aeruginosa & Psuedomonas syringae*., some of the most well characterized pathogenic infections in plants (Staskawicz *et al.* 1987, Whalen *et al.* 1991). 10-15 mL/L of Glycerol (G381) can be added to the medium as a carbon source before autoclaving. The molarity of the magnesium sulfate is the same as other formulations; we use the anhydrous form to minimize caking.

References:

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

Staskawicz, B., Dahlbeck, D., Keen, N., and C. Napoli. (1987) Molecular Characterization of Cloned Avirulence Genes from Race 0 and Race 1 *of Pseudomonas syringae* pv. *glycinea*. J. Bacteriology. Vol 169(12) pg. 5789-5794..

Whalen M.C., Innes R.W., Bent A.F., and B.J. Staskawicz (1991) Identification of *Pseudomonas syringae* pathogens of *Arabidopsis* and a bacterial locus determining avirulence on both Arabidopsis and soybean. *Plant Cell* Vol. 3(1) pg. 49-59.

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