

King B Broth Base



Medium used for the detection and enumeration of fluorescing bacteria in water, in particular *Pseudomonas fluorescens* in drinking water.

• CONTENTS (Liter)

| | |
|---------------------------------|--------|
| Proteose Peptone | 20.0 g |
| Dipotassium Phosphate | 1.5 g |
| Magnesium Sulphate Heptahydrate | 1.5 g |
| Final pH = 7.2 ± 0.2 at 25°C. | |

• PROCEDURE

Suspend 23.0 G of powder in 1 L of distilled or deionized water. Add 10 mL Glycerol supplement (MB-G1821). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in tubes.

• INTERPRETATION

King B Broth Base is a medium used for the detection and enumeration of fluorescing bacteria in water, in particular *Pseudomonas fluorescens* in drinking water. Proteose peptone is a source of carbon, nitrogen and essential nutrients. Magnesium sulfate is necessary for the activation of fluorescein production. Dipotassium phosphate enhances the production of fluorescent pigment.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 35 - 37 °C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: slightly opalescent.

Color: light amber.

Incubation conditions: 35 - 37 °C / 18 - 24 hours

| Microorganism | ATCC | Inoculum CFU | Growth |
|-------------------------------|-------|--------------|--------|
| <i>Pseudomonas aeruginosa</i> | 27853 | 50-100 | good |
| <i>Escherichia coli</i> | 25922 | 50-100 | good |

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

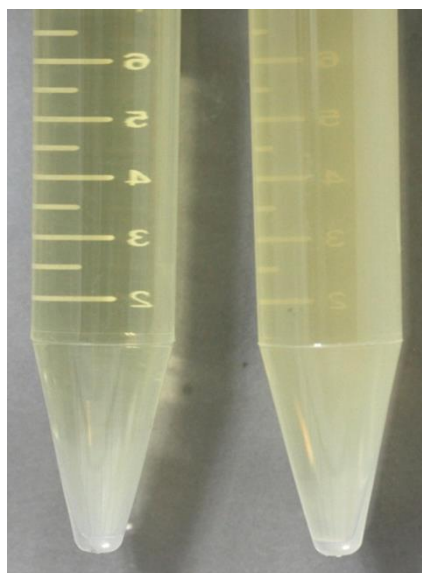
• REFERENCES

1. King King E. O., Ward M. K. and Raney D. E., 1954, J. Lab and Clin. Med., 44:301-307.
2. United States Pharmacopoeia XXVIII.

• PACKAGE

| | |
|---|-------|
| Cat. No : MB-K0827 King B Broth Base | 500 G |
|---|-------|

• MICROBIAL CULTURE IMAGES



None

P.aeruginosa
ATCC 27853

Incubation conditions : 36±2°C 24h