

RM BASE AGAR MEDIUM

Cat. 1542

Solid medium for the maintenance and propagation of the promoter P_L in the *E. coli* strains GI724, GI826 and GI698

FORMULA IN GRAMS PER LITER

<i>Casaminoacids</i>	20.00	<i>Disodium Phosphate</i>	6.00
<i>Monopotassium Phosphate</i>	3.00	<i>Ammonium Chloride</i>	1.00
<i>Sodium Chloride</i>	0.50	<i>Magnesium Chloride</i>	0.095
<i>Bacteriological Agar</i>	15.00		

Final pH 7.0 ± 0.2 at 25°C

Preparation

Suspend 45.6 grams of the dehydrated medium in 900 ml of distilled water, add 20 ml of 50% glycerol and adjust to a final volume of 1000 ml. Mix well. Heat with frequent agitation until complete dissolution. Sterilize in the autoclave at 121°C for 15 minutes. Add 1 ml of 100 µg/ml of ampiciline under sterile conditions and mix well. Cool to 45 - 50°C and pour into Petri dishes. Store at 4°C. The color of the prepared medium is amber.

Uses

This is a solid base medium for the maintenance and propagation of the promoter P_L in the *E. coli* strains GI724, GI826 and GI698. These strains have the gene Lambda cI repressor, under the control of the promoter tryptophane inducible, trp . This medium has low tryptophane levels. To favor growth it may require the addition of glucose.

MICROBIOLOGICAL TEST

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 35 ± 2°C and observed after 18 - 24 hours.

Microorganisms	Growth
<i>Escherichia coli</i> GI724	Good

Storage of Dehydrated Medium

Store the sealed bottle containing the dehydrated medium at 2 to 25°C. Once opened and recapped, place the container at the same storage temperature protected from moisture and light. The dehydrated medium should be homogeneous, free flowing and beige in color. If there are any changes physically, discard the medium.

Bibliography

La Vallie, E. R. et al. (1992) *Bio/Technology* 11: 187-193.
Mieschendahl, M. et al. (1996) *Bio/Technology* 4: 802-808.