

MM0108

Phenol red glucose agar

Use and description:

The general purpose agar for detection of glucose utilisation. The fermentation of the carbohydrate turns the medium to yellow.

Composition per liter:

Sodium chloride.....	5.000 g
Tryptone.....	10.000 g
Phenol red.....	0.018g
D-Glucose.....	7.000 g
Agar.....	15.000 g

Final pH of the ready to use medium: 7.4 ± 0.2

Medium preparation:

Add 37 grams of dehydrated culture medium to 1 liter distilled water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely.

Autoclave at 121 °C for 15 minutes. Distribute to tubes and allow to cool in slanted position.

Quality specification:

Dehydrated medium: homogeneous, pinkish coloured, fine powder.

Ready to use medium: clear and red amber.

Microbiological response:

Organism	Result / Colour / Gas
<i>Escherichia coli</i> ATCC 25922	Growth / yellow / +
<i>Pseudomonas aeruginosa</i> ATCC 27853	Growth / red / -
<i>Staph. Aureus</i> ATCC 25923	Growth / yellow / -

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.