M63 Medium Broth

Code	Description	Size
J910-500G J910-100G	M63 Medium Broth	500G 100G

General Information:

M63 is a minimal medium used in cultivation of *Escherichia coli*. Bacteria can grow easily on this medium because the medium contains carbon compounds such as the glucose found in glycerol. Glycerol can serve as both a carbon source and an energy source. Salts are present to supply nitrogen, phosphorus, and trace metals that the bacteria would need for growth[1]. The addition of magnesium sulfate supplies the magnesium ions that are essential for the enzymatic reaction of DNA replication.

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Formula: (Per Liter)

Ammonium Sulfate = 2.0g
Potassium Phosphate, Monobasic = 13.6g
Ferrous Sulfate x $7H_2O$ = 0.5 mg

Additional supplements to be added after autoclaving:

10 mls of a sterile 20% solution of glycerol.
1 ml of a sterile 1M $MgSO_4$ solution.

The above solutions should be sterilized separately by filtration prior to addition to the broth.

Storage:

Dehydrated media should be stored in a dry area at 18-26°C.
Prepared media should be stored at 2-8°C.

Method of Preparation:

1. Suspend 15.6 grams of M63 Medium Broth powder in 1L of purified water.
2. Allow the powder to dissolve. Heat and stir gently if required. Adjust pH to 7.0 with KOH.
3. Autoclave at 121°C for 15 minutes.
4. Allow the solution to cool to 50°C or below before adding antibiotics or additional nutritional supplements

Application Disclaimer

For research use only.
Not for therapeutic or diagnostic use

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