

PRODUCT INFORMATION



M9 Minimal Salts

Cat. No. M13-130

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DESCRIPTION

M9 Minimal Salts, with additions of selected carbon and energy sources (e.g. Dextrose), is used to prepare M9 Minimal Medium, which is used to cultivate recombinant strains of Escherichia coli.

PREPARATION

Mix 10.0 grams of the medium in a Liter of purified water until evenly dispersed and autoclave at 121°C for 15 minutes. Cool to room temperature and aseptically add 20 ml/l of a filter sterilized 2% solution of a carbon/energy source such as dextrose and 2 ml/l of a sterile 1M solution of MgSO₄. CaCl₂ may also be added using a sterile 1M solution at 0.1 ml/l media.

Formula* per Liter:

Sodium Phosphate, Dibasic.....	6.0g
Sodium Phosphate, Monobasic	3.0g
Ammonium Chloride	1.0g

Final pH: 7.0 ± 0.2 at 25°C

** Grams per liter may be adjusted or formula supplemented to obtain desired performance.*

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and white.
2. Visually, the prepared medium is colorless, and without precipitate.
3. Expected cultural response after 20-24 hours at 35.0°C.

Organism:

Escherichia coli ATCC 23724
Escherichia coli ATCC 33694
Escherichia coli ATCC 33849
Escherichia coli ATCC 39403
Escherichia coli ATCC 47014
Escherichia coli ATCC 53868

Result:

Growth
Growth
Growth
Growth
Growth
Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30.0°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original purple color.