INSTRUCTION MANUAL

SERVA Electrophoresis

M9 Minimal Salts 5x, Powder Cat. No. 48505

Product Description:

General

M9 Minimal Salts 5x are suitable for the preparation of M9 Minimal Medium for cultivation of recombinant *E. coli* strains.

Range of application of M9 Minimal Medium

- Maintaining positive selection pressure on plasmids coding for genes to produce essential substances such as amino acids and vitamins
- Maintenance of F'-containing bacteria strains for M13 propagation
- After supplementation with specific amino acids or other metabolites for selection of specific auxotrophs

Composition

M9 Minimal Salts 5x is a fivefold concentrate.

Component	Concentration
Na_2HPO_4	10 g/l
KH_2PO_4	5 g/l
NH_4Cl	5 g/l
NaCl	2.5 g/l

Storage

Recommended storage temperature of powder is +15 °C – +30 °C. Keep container tightly closed, because powder is very hygroscopic.

Solution procedure:

1. For 1 liter 5x concentrate solve 52.2 g powder in 1 l dest. water.
2. For sterilisation autoclave for 15 min. at 121 °C.

Preparation of M9 minimal medium (example, composition application-specific):

1. Add 200 ml sterile 5x M9 Minimal Salt solution to 750 ml sterile dest. H_2O (cooled to 45 – 50 °C), adjusting the final volum e to 1 liter.
2. Aseptically add 20 ml filter-sterilized 20 % glucose solution, 2 ml sterile 1 M $MgSO_4$ solution and, if desired, 0.1 ml sterile 1 M $CaCl_2$ solution. Mix well.
3. If desired, supplement with amino acids, as appropriate.

[1] Sambrook, J. et al., Molecular Cloning : A Laboratory Manual, 2nd ed., p. A.3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY.

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