

## PRODUCT INFORMATION

### M9 Minimal Salts 5x, Powder

Art.-Nr. 48505

#### Product Description:

**General** M9 Minimal Salts 5x are suitable for the preparation of M9 Minimal Medium for cultivation of recombinant *E. coli* strains<sup>1</sup>.

#### 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<sup>+</sup>-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 <sub>2</sub> HPO <sub>4</sub>	10 g/l
KH <sub>2</sub> PO <sub>4</sub>	5 g/l
NH <sub>4</sub> Cl	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.

#### Herstellung eines M9-Minimalmediums (Beispiel, Zusammensetzung anwendungs-spezifisch):

3. Add 200 ml sterile 5x M9 Minimal Salt solution to 750 ml sterile dest. H<sub>2</sub>O (cooled to 45 – 50 °C), adjusting the final volume to 1 liter.
4. Add 20 ml filter-sterilized 20 % glucose solution, 2 ml sterile 1 M MgSO<sub>4</sub> solution and, if desired, 0.1 ml sterile 1 M CaCl<sub>2</sub> solution. Mix well.
5. If desired, supplement with amino acids, as appropriate.

<sup>1</sup> Sambrook, J. et al., Molecular Cloning : A Laboratory Manual, 2<sup>nd</sup> ed., p. A.3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY.