

## 5X M9 Minimal Salt Solution

Catalog Number **MM 003-01**

Storage Temperature 15~30°C

### Product Description

5X M9 Minimal Salts solution is used in the preparation of M9 minimal media (a liquid growth media for bacterial culture). The composition of the M9 Minimal Salts include buffering agents, a nitrogen source and necessary ions critical to the completion of M9 minimal media.

### Storage/Stability

5X M9 Minimal Salts solution should be stored at 15~30°C. Deterioration of 5X M9 Minimal Salts solution may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. The nature of supplements added may affect storage conditions and shelf life of 5X M9 Minimal Salts solution. Product label bears expiration date.

### Biological Performance Characteristics

Use the following instructions for preparing complete M9 minimal medium as a starting point. Additional supplementation may be required depending on the nutritional needs of the specific microbe to be cultured. Inoculate and incubate cultures on a rotary shaker at 33°C to 37°C for 18~48 hours.

### Precautions

For *In Vitro* Use Only

Components	g/L MM 003-01
Na <sub>2</sub> HPO <sub>4</sub> ·7H <sub>2</sub> O	64.0
KH <sub>2</sub> PO <sub>4</sub>	15.0
NaCl	2.5
NH <sub>4</sub> Cl	5.0

### Product Profile

Appearance	Clear colorless solution
pH at RT	6.7 ~ 7.3
Sterility	Sterilized by Autoclave system(121°C, 15 lb/sq. in., 20 min) Sterility tests are performed in accordance with protocols described in SOP.

### References

Lin Tung, Wai, and King-C. Chow. "A modified medium for efficient electrotransformation of *E. coli*." Trends in Genetics 11.4 (1995): 128-129.  
Green, Michael R., and Joseph Sambrook. Molecular cloning: a laboratory manual. New York: Cold Spring Harbor Laboratory Press, 2012.