

M9 Minimal Medium, Liquid

Catalog Number **MM 004-01**
 Storage Temperature 2~8°C

Product Description

M9 minimal medium is used to culture microbes such as *E.coli* and bacteriophage M13, in addition to amplifying plasmid. The composition of M9 minimal medium, which consists of the minimal nutritional requirements in supporting cell growth, is known in its entirety. Therefore the effect of certain ingredients on cell growth can be researched by adding supplements of the researcher's choice.

Storage/Stability

M9 minimal medium should be stored at 2~8°C. Deterioration of M9 minimal medium 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 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	mL/L MM 004-01
5X M9 minimal salt solution	200.0
1M MgSO ₄	2.0
1M CaCl ₂	0.1
20% Glucose	20.0

Product Profile

Appearance	Clear colorless solution
pH at RT	6.8 ~ 7.2
Sterility	Sterilized by Autoclave system(121°C, 15 lb/sq. in., 20 min, 5X M9 minimal salt solution, 1M MgSO ₄ , and 1M CaCl ₂). Sterile-filtered(20% glucose) Sterility tests are performed in accordance with protocols described in SOP.

References

Davis, L.G., M. D. Dibner and J.F. Battey. 1986. Basic methods in molecular biology. Elsevier, New York, NY.
 Green, Michael R., and Joseph Sambrook. Molecular cloning: a laboratory manual. New York: Cold Spring Harbor Laboratory Press, 2012.