

GYT Medium, Liquid

Catalog Number **MM 009-01**
 Storage Temperature 2~8°C

Product Description

GYT Medium, used in preparing electrocompetent cells. GYT Medium (glycerol-yeast extract-tryptone) Used resuspend the pellet of *E. coli* and frozen electrocompetent cells.

Storage/Stability

GYT medium should be stored at 2~8°C. Deterioration of GYT 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 GYP medium. Product label bears expiration date.

Biological Performance Characteristics

The electroporation capacity of GYT medium is tested in appropriate medium using an appropriate cell line(s). Harvest cells by centrifugation and resuspend the pellet in ice-cold GYT medium. Dilute the cell suspension to a concentration of 2x10¹⁰ to 3x10¹⁰ cells/mL with ice-cold GYT medium. Transfer 40ul of the suspension to an ice-cold electroporation cuvette and test whether arcing occurs when an electrical discharge is applied (electrical pulse of 25 uF capacitance, 2.5 kV, and 200 ohm). Transfer the cells incubate the cultures with gentle rotation for 1 hour at 37C. Plate different volumes of the electroporated cells onto SOB agar medium and the appropriate antibiotic.

Precautions

For *In Vitro* Use Only

		%
Components		MM 009-01
Glycerol		10
Bacto-Yeast Extract		0.125
Bacto-Tryptone		0.25
Product Profile		
Appearance	Yellow transparent solution	
Sterility	Sterilized by 0.2 μm filtration system. 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.