
Trypticase™ Soy Broth with 20% Glycerol

Intended Use

This medium is used in the long-term frozen maintenance of bacterial stock cultures.

Summary and Explanation

Trypticase Soy Broth, a nutritious medium supplemented with glycerol, may be used as a maintenance medium for the preservation of bacterial cultures.^{1,2}

Principles of the Procedure

Enzymatic digests of protein substrates act as protective colloids. Glycerol is a cryoprotective agent that provides intracellular and extracellular protection against freezing.²

Procedure

Using a sterile swab or inoculating loop, remove fresh growth from the plated or slanted medium and suspend in the broth maintenance medium to achieve the desired concentration of viable cells. Freeze suspension immediately at -20°C or below.

Consult texts for detailed information about preparing stock cultures of specific organisms.^{2,4}

Expected Results

Bacterial stock cultures frozen and stored at -20°C or below will remain viable for several months, and some may remain viable for years.

References

1. MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
2. Gherna. 1994. In Gerhardt, Murray, Wood and Krieg (ed.). Methods for general and molecular bacteriology. American Society for Microbiology, Washington, D.C.
3. Norris and Ribbons (ed.). 1970. Methods for microbiology, vol. 3A. Academic Press, Inc., New York, N.Y.
4. Kirsoop and Snell (ed.). 1984. Maintenance of microorganisms. Academic Press, Inc., New York, N.Y.

Availability

BBL™ Trypticase™ Soy Broth with 20% Glycerol

Cat. No.	296346	Prepared Tubes (K Tubes), 1.5 mL – Pkg. of 10
	297808	Prepared Tubes (K Tubes), 1.5 mL – Ctn. of 100
	297352	Prepared Tubes (C Tubes), 10 mL – Ctn. of 100