

Tryptic Soy Broth + 15% Glycerol

Liquid medium for the preservation of organisms by freezing.

DESCRIPTION

Tryptic Soy Broth + 15% Glycerol is a liquid medium used in the long-term frozen storage of microorganisms.

KIT CONTENTS

Each package contains 20 tubes of 1.5 ml and 1 instruction sheet.

METHOD PRINCIPLE

Tryptic Soy Broth is a highly nutritious medium used for the cultivation of microorganisms from environmental sources. Glycerol is added to the broth to maintain the organisms viability by protecting cell membranes during freezing.

COMPOSITION (per liter of medium)

Enzymatic Digest of Casein	17.0 g	Sodium Chloride	5.0 g
Enzymatic Digest of Soybean Meal	3.0 g	Dipotassium Hydrogen Phosphate	2.5 g
Glucose	2.5 g	Glycerol	150.0 ml
Final pH 7.3 ± 0.2			

TEST PROCEDURE

1. Prepare an overnight culture of the organism to be stored on an appropriate non-selective solid medium.
2. Using a sterile swab or inoculating loop, remove fresh growth from the culture medium and suspend the colonies in the tube to achieve the desired concentration of viable cells.
3. Shake or vortex well before freezing suspension at -20°C or below.

Recovery

1. Allow the tube to thaw by placing it at room temperature.
2. Under aseptic conditions open the tube and use a sterile loop to transfer several full loops from the tube to a suitable agar medium.

QUALITY CONTROL FOR THE USER

1. Visual inspection: clear, yellow to amber, with none to light precipitate.
2. Microbiological control.

Control strains

<i>Escherichia coli</i>	ATCC® 25922
<i>Pseudomonas aeruginosa</i>	ATCC® 27853
<i>Staphylococcus aureus</i>	ATCC® 25923

Growth on Tryptic Soy Agar

Good
Good
Good

PRECAUTIONS

Tryptic Soy Broth + 15% Glycerol is not classified as hazardous under current legislation, anyway for its use it is recommend to consult the MSDS. The medium is intended for professional use only and should be used in the laboratory by properly trained operators, with approved methods of aseptic and safety against pathogens.

STORAGE AND TRANSPORT CONDITIONS

2-8°C away from light in its original package, until the expiry date shown on the label. However, our stability studies have shown that the storage or transport at 18-25°C for 4 days, or at 35-39°C for 48 hours, do not alter in any way the performance of the product. Eliminate if signs of deterioration or contamination are evident.









BIBLIOGRAPHY

1. Gherna, R.L. (1994) Culture preservation, p. 278-292. In P. Gerhardt, R.G.E. Murray, W.A. Wood, and N.R. Krieg (ed.) Methods for general and molecular bacteriology. American Society for Microbiology, Washington, D.C.
2. MacFaddin, J.F. (1985) Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. I. Williams & Wilkins, Baltimore.
3. Kirsop, B.E. and J.J.S. Snell (ed.) (1984) Maintenance of microorganisms. Academic Press Inc., New York.

PRESENTATION

Product	Ref.	Content
Tryptic Soy Broth + 15% Glycerol	27002	20 x 1.5 ml

TABLE OF SYMBOLS

 Batch code	 Fragile, handle with care	 Manufacturer	 Use by
 Catalogue number	 Temperature limitation	 Contains Sufficient for <n> tests	 Caution, consult accompanying documents