

## Tryptone Glucose Broth

Liquid medium for preparation of spore suspensions.

TYPICAL FORMULA	(g/l)
Yeast Extract	2.5
Tryptone	5.0
Glucose	1.0
Final pH 7.2 ± 0.2	

### DESCRIPTION

Tryptone Glucose Broth (TGB) is a liquid medium used for the evaluation of sporicidal activity of chemical disinfectants according to UNE-EN-13704 standard.

### PRINCIPLE

Tryptone provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Glucose is the fermentable carbohydrate.

### TECHNIQUE

1. Prepare a spores suspension from an exponential phase culture of vegetative bacteria in TGB.
2. Transfer 2-3 ml of this culture to Meat Yeast Extract Agar (MYA) and incubate at 30°C for 8-10 days.
3. Harvest and purify the culture by repeated washing cycles.
4. Heat-shock the suspension at 75°C for 10 min in order to kill vegetative cells.

Spore can be stored in distilled water at 4°C until use.

Spore suspensions are quantified in Glucose Yeast Extract Agar (GYEA), incubating at 30°C for 72 h. If no adequate neutralizer exists for the biocide under investigation, eliminate the sporicidal agent prior to colony counting by filtration.

### INTERPRETATION OF RESULTS

Count colonies on GYEA.

Calculate lethality as the difference between the logarithms of colony counts of the untreated and treated samples.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

1. García-de-Lomas J. et al. (2008) Evaluation of the in-vitro sporicidal activity and toxicity of a novel peroxygen biocide: 2-butanone peroxide. J Hosp Infect; 68(3):248-54.
2. UNE-EN-1276 (1997) Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas. Test methods and requirements (phase 2, step 1). Bruxelles: European Committee for Standardization.



## PRODUCT SPECIFICATIONS

### NAME

Tryptone Glucose Broth (TGB)

### PRESENTATION

Glass tubes containing 10 ml of medium

### STORAGE

10-25°C

### PACKAGING

Ref.	Content	Packaging
26474	100 x 10 ml tubes	100 tubes in cardboard box

### pH OF THE MEDIUM

7.2 ± 0.2

### USE

Tryptone Glucose Broth (TGB) is a liquid medium used for spore preparations according to UNE-EN-13704 standard

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

Appearance: clear to slightly opalescent

Colour: light amber

### SHELF LIFE










2 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control  
7 days at 22 ± 2°C, in aerobiosis  
7 days at 35 ± 2°C, in aerobiosis
- Microbiological control  
Inoculum for productivity: 50-100 CFU  
Incubation Conditions: 30 ± 2°C for 18-24 h

Microorganism	Growth
<i>Bacillus subtilis</i> ATCC® 6633	Good

### TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instruction for use	



**LIOFILCHEM® S.r.l.**

Via Scozia, Zona Ind.le - 64026, Roseto degli Abruzzi (TE) - ITALY  
Tel +39 0858930745 Fax +39 0858930330 Website: www.liofilchem.net E-mail: liofilchem@lioilchem.net