

# TPGY (Trypticase Peptone Glucose Yeast Extract) Broth



Medium used for the cultivation of a variety of anaerobic bacteria.

\*Equally use with MFDS (MB-T1395K) and QIA (MB-T1395Q).

## • CONTENTS (Liter)

Trypticase	50.0 g
Peptone	5.0 g
Yeast Extract	20.0 g
Dextrose	4.0 g
Sodium Thioglycollate	1.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 80.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 10 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in tubes.

## • INTERPRETATION

TPGY (Trypticase Peptone Glucose Yeast Extract) Broth is a medium used for the cultivation of a variety of anaerobic bacteria. Trypticase and peptone provide nitrogen, carbon, amino acids and minerals. Yeast extract provides vitamins. Dextrose provides carbohydrates. Sodium thioglycollate provides reducing agent.

## • TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 26 °C for 7 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

### Prepared medium

Appearance: clear with no precipitate.

Color: amber.

Incubation conditions: 26 °C / 7 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Clostridium butulinum</i>	25763	50-100	good
<i>Clostridium sporogenes</i>	19404	50-100	good
<i>Clostridium perfringens</i>	13124	50-100	good

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

## • REFERENCES

1. Vanderzant C. and Splittstoesser D. F., (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.
2. Refer to the MFDS and QIA.

## • PACKAGE

Cat. No : MB-T1395 TPGY (Trypicase Peptone Glucose Yeast Extract) Broth	500 G
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## • MICROBIAL CULTURE IMAGES



None

*C.perfringens*  
ATCC 13124

Incubation conditions : 26°C 7 days