

TPY Broth

Medium used for the isolation and cultivation of *Bifidobacteria* spp..

• CONTENTS (Liter)

Hydrolyzed Casein	10.0 g
Soya Peptone	5.0 g
Yeast extract	2.0 g
Glucose	5.0 g
L-Cysteine	0.5 g
Dipotassium Phosphate	2.0 g
Magnesium Chloride	0.5 g
Zinc Sulfate	0.25 g
Calcium Chloride	0.15 g
Ferric Chloride	0.000001 g
Tween 80	1.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 26.4 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 25 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in tubes. If necessary, adjust the pH to 6.5 ± 0.1.

• INTERPRETATION

TPY Broth is a medium used for the isolation and cultivation of *Bifidobacteria* spp.. Hydrolyzed casein, soya peptone and yeast extract are a carbon, nitrogen, vitamins and other nutrient source. Glucose is a carbohydrate source for fermentation. L-Cysteine is the reducing agent. Dipotassium phosphate is the buffering agent. Calcium chloride, ferric chloride, zinc sulfate and magnesium chloride improves growth of *Bifidobacteria* spp..

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 36 ± 2°C for up to 3 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: turbid, opalescent with slightly precipitate.

Color: amber.

Incubation conditions: 36 ± 2°C / up to 3 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Bifidobacterium longum</i>	15707	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. Scardovi V. (1981): The Genus Bifidobacterium. In: The Prokaryotes Vol. 2 eds
2. A New Selective Medium for Bifidobacterium spp. Y. Nebra* And A. R. Blanch Applied And Environmental Microbiology, Nov. 1999, p. 5173–5176

• PACKAGE

Cat. No : MB-T0743 TPY Broth	500 G
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• MICROBIAL CULTURE IMAGES



None

*Bifidobacterium
longum*
ATCC 15707
(100 CFU)

Incubation conditions : 36 °C, 24-48h anaerobic condition