

TPY Agar

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
Agar	20.0 g
Tween 80	1.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 46.4 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 petri dishes. If necessary, adjust the pH to 6.5 ± 0.1.

• INTERPRETATION

TPY Agar 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.. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. 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-T0731 TPY Agar	500 G
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• MICROBIAL CULTURE IMAGES



None



Bifidobacterium longum ATCC 15707

Incubation conditions : 35±2°C 48h anaerobically