

Bifidobacterium Broth



Medium used for the cultivation and enumeration of Bifidobacterium spp.

• CONTENTS (Liter)

Yeast Extract	10.0 g
Peptone	10.0 g
Tryptone	10.0 g
Casitone	10.0 g
Glucose	20.0 g
Polysorbate 80	2.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 62.0 G of powder in 600 mL of distilled or deionized water. Heat to boiling until completely dissolved. Add 2 bottles of Breeze Modified supplement (MB-B3039). Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

Breeze Modified supplement

1 vial contents (each vial is sufficient for 500 mL of medium)

Tomato Juice Solution 200 mL

• INTERPRETATION

Bifidobacterium Broth is used for the cultivation and enumeration of the Bifidobacterium spp. Yeast extract, peptone, tryptone and casitone are sources of nitrogen, carbon, vitamins and minerals for growth of microorganisms. Glucose is a source of carbohydrate. Polysorbate 80 provides nutrients. Breeze Modified supplement maintains acidic environment in the medium.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the middle of the medium. Incubate at 36 ± 1°C for 24 - 72 hours under anaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : clear

Color: dark amber

Incubation conditions: 36 ± 1°C / 24 - 72 hours under anaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Bifidobacterium longum</i>	15707	50-100	good
<i>Bifidobacterium bifidum</i>	29521	50-100	good
<i>Bifidobacterium lactis</i>	5854 (KCTC)	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 are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Handbook of Microbiological Medium for the Examination of Food. Ronald M. Atlas.

• PACKAGE

Cat. No : MB-B0708 Bifidobacterium Broth	500 G
---	-------