

Bifidobacterium Agar



Medium used for the isolation and cultivation of Bifidobacterium spp.

• CONTENTS (Liter)

Peptone	23.0 g
Glucose	5.0 g
Sodium Chloride	5.0 g
Soluble Starch	1.0 g
L-Cysteine HCl	0.3 g
Agar	15.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 49.3 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Bifidobacterium Agar is a medium used for the isolation and cultivation of Bifidobacterium spp. Peptone and soluble starch provide nitrogen, carbon, vitamins and minerals for the growth of microorganisms. Glucose is a carbon source. Sodium chloride maintains the osmotic balance. L-Cysteine HCl is the reducing agent. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 72 hours under anaerobic conditions. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: slightly opalescent

Color: light amber

Incubation conditions: 35 ± 2°C / 18 - 72 hours under anaerobic conditions

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>	KCTC 5854	50-100	good

• WARNING AND PRECAUTIONS

Check the label before opening the container and follow appropriate microbiological laboratory procedures. Wear protective gloves, protective clothing, safety glasses, and face protection. Safety instructions can be found in Material Safety Data Sheet (MSDS).

• PERFORMANCE AND EVALUATION

Performance of the medium can be expected when used according to the directions on the label within the recommended temperature.

• STORAGE AND SHELF LIFE

The powder is very hygroscopic. Store in the provided container according to the temperature indicated on the container surface, and store the prepared medium at a temperature of 2 to 8°C. Use within the expiration date indicated on the label and store in a dry and well-ventilated place. The product can be used until the stated expiration date.

• REFERENCES

1. Handbook of Microbiological Media, 4th Ed. Ronald M. Atlas.

• PACKAGE

Cat. No : MB-B0930 Bifidobacterium Agar	500 G
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