

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 growth of microorganisms. Glucose is a carbon source. Sodium chloride maintains osmotic balance. L-Cysteine HCl is the reducing agent. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 18 - 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 : opalescent

Color: amber

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

Microorganism	Inoculum CFU	ATCC	Growth
<i>Bifidobacterium longum</i>	50-100	15707	good
<i>Bifidobacterium bifidum</i>	50-100	29521	good
<i>Bifidobacterium animalis</i>	50-100	5854(KCTC)	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 Media, 4th Ed. Ronald M. Atlas.

• PACKAGE

Cat. No : MB-B0930 Bifidobacterium Agar	500 G
--	-------