

BS (Bifidobacterium Selective) Broth



Medium used for the isolation and cultivation of Bifidobacterium spp.

• CONTENTS (Liter)

BL Broth	45.23 g
Sodium Propionate	15.0 g
Paromomycin Sulfate	0.05 g
Neomycin	0.1 g
Lithium Chloride	3.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 63.38 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. If necessary aseptically add 5% of Horse Blood Defibrinated (MB-H1883) or Sheep Blood Defibrinated (MB-S1876). Pour into tubes.

• INTERPRETATION

BS (Bifidobacterium Selective) Broth is the medium used for the isolation and cultivation of Bifidobacterium spp. The medium is used for the quality control in the manufacture of dairy products. This medium allows an easy and fast quality control of yogurt made with Bifidobacterium and can be used to control the count of Bifidobacterium spp. Bifidobacterium grow very well on it while *Lactobacillus* and *Streptococcus* strains are inhibited. BL Broth (MB-B1602) is a culture medium for the cultivation and enumeration of *Bifidobacterium* species. Sodium propionate is a necessary factor for the growth of Bifidobacterium spp. and inhibits the growth of molds and some bacteria. Paromomycin sulfate and neomycin are antibacterial agents. Lithium chloride is the selective agent.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 36 ± 1°C for 48 - 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 : slightly opalescent

Color: amber (if add blood, cherry red)

Incubation conditions: 36 ± 1°C / 48 - 72 hours under anaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Bifidobacterium longum</i>	15707	10 ² -10 ³	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Dowell, V. R., Jr. and T. M. Hawkins. 1974. Laboratory Methods in Anaerobic Bacteriology. CDC Laboratory Manual. USDHEW C. D. C. Atlanta, GA 30333.

• PACKAGE

Cat. No : MB-B0727 BS (Bifidobacterium Selective) Broth	500 G
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• MICROBIAL CULTURE IMAGES



None

B.longum
ATCC 15707

Incubation conditions : 36 ± 1°C / 48 - 72 hours under anaerobic condition