# **BS** (Bifidobacterium Selective) Agar



Medium used for the isolation and cultivation of Bifidobacterium spp.

# • CONTENTS (Liter)

BL Agar without Tween 80	59.22 g
Sodium Propionate	15.0 g
Paromomycin Sulfate	0.05 g
Neomycin	0.1 g
Lithium Chloride	3.0 g
Tween 80	1.0 g
Final pU 7.2   0.2 at 25°C	•

Final pH =  $7.2 \pm 0.2$  at  $25^{\circ}$ C

#### PROCEDURE

Suspend 78.37 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 115°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 petri dishes.

#### INTERPRETATION

BS (Bifidobacterium Selective) Agar is a medium used for the isolation and cultivation of Bifidobacterium spp. BL Agar (MB-B1380) is a medium for the cultivation and enumeration of Bifidobacterium species. Sodium propionate is a necessary factor for the growth of Bifidobacterium spp. Paromomycin sulfate and Neomycin are antibacterial agents. Lithium chloride is the selective agent. Tween 80 provides fatty acids.

#### TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36  $\pm$  1°C for 48 - 72  $\pm$  3 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

Incubation conditions: 36  $\pm$  1°C / 48 - 72  $\pm$  3 hours under anaerobic condition

Microorganism	ATCC	Growth
Bifidobacterium longum	15707	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.

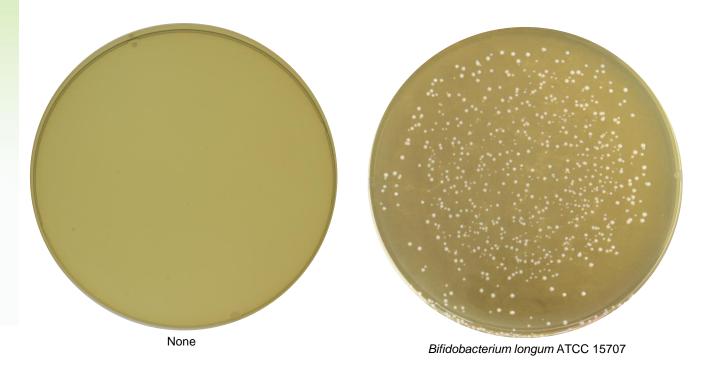
# REFERENCES

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

BS (Bifidobacterium Selective) Agar
-------------------------------------

# MICROBIAL CULTURE IMAGES



Incubation conditions : 36  $\pm$  1°C 48 - 72 hours under anaerobic condition



KisanBio Co., Ltd.