

BL Agar

Medium used for the isolation and cultivation of Bifidobacterium spp.

*Equally use with MFDS (MB-B1380K) and QIA (MB-B1380Q).

• CONTENTS (Liter)

Beef Extract	3.0 g
Liver Extract	5.0 g
Yeast Extract	5.0 g
Proteose Peptone	10.0 g
Tryptone	5.0 g
Soy Peptone	3.0 g
Soluble Starch	0.5 g
Glucose	10.0 g
Dipotassium Phosphate	1.0 g
Monopotassium Phosphate	1.0 g
Magnesium Sulfate	0.2 g
Sodium Chloride	0.01 g
Manganese Sulfate	0.0067 g
L-Cysteine HCl H ₂ O	0.5 g
Ferrous Sulfate	0.01 g
Polysorbate 80	1.0 g
Agar	15.0 g

Final pH = 7.2 ± 0.2 at 25°C

• PROCEDURE

Suspend 60.23 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. Aseptically add 5% of Horse Blood Defibrinated (MB-H1883) or Sheep Blood Defibrinated (MB-S1876). Mix well. Pour into petri dishes.

• INTERPRETATION

BL Agar is a medium used for the isolation and cultivation of Bifidobacterium spp. Beef extract, liver extract and yeast extract provide growth factors, vitamins and minerals. Peptones and soluble starch provide nitrogen, carbon, vitamins and minerals for growth of microorganisms. Glucose is a carbon source. Phosphates are buffering agents. Magnesium sulfate, manganese sulfate and ferrous sulfate provide ions, essential electrolytes and minerals. Sodium chloride maintains osmotic balance. L-cysteine is the reducing agent. Polysorbate 80 provides fatty acids. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36 ± 1 °C for 48 - 72 ± 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 / cherry red

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

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Bifidobacterium longum</i>	15707	50-100	good	creamy white colony
<i>Bifidobacterium bifidum</i>	29521	50-100	good	creamy white colony
<i>Bifidobacterium breve</i>	15701	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 or contamination are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Ronald M. Atlas(2006), Handbook of Microbiological media for the examination of Food, Second Edition.
2. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-B1380 BL Agar	500 G
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• MICROBIAL CULTURE IMAGES



Bifidobacterium longum ATCC 15707 (100 CFU)



Lactobacillus plantarum ATCC 8014 (100 CFU)

Incubation conditions : 35±2°C 48h