

Dental LactoBacilli Agar



Medium used for the isolation and enumeration of Lactobacilli from dental flora and food.

• CONTENTS (Liter)

Pancreatic Digest of Casein	10.0 g
Yeast Extract	5.0 g
Glucose	20.0 g
Monopotassium Phosphate	6.0 g
Ammonium Citrate	2.0 g
Sodium Acetate Hydrate	15.0 g
Magnesium Sulfate	0.6 g
Manganese Sulfate	0.1 g
Ferrous Sulfate	0.03 g
Agar	20.0 g

Final pH = 6.0 ± 0.2 at 25°C.

• PROCEDURE

Suspend 78.73 G of powder in 1L of distilled or deionized water. Aseptically add 1.3 mL of Glacial Acetic supplement (MB-G0743) and 1.0 mL of Tween 80 supplement (MB-T1861). 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. Dispense into petri dishes.

Glacial Acetic supplement

1 vial contents

Glacial Acetic Acid 15 mL

Tween 80 supplement

1 vial contents

Tween 80 50 mL

• INTERPRETATION

Dental LactoBacillis Agar is a medium used for the isolation and enumeration of Lactobacilli from dental flora and food. Pancreatic digest of casein and yeast extract provide the nitrogen and vitamin sources. Glucose is a carbohydrate. Ammonium citrate, sodium acetate hydrate, ferrous sulfate and glacial acetic acid act as inhibitors of other organisms and provide the low pH which is tolerated by lactobacilli. Magnesium sulfate and manganese sulfate are growth factors. Tween 80 is an additional source of growth factor and fatty acid. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of medium using a sterile loop. Incubate at 35 ± 2°C for 2 - 3 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance : clear to slightly opalescent.

Color: brown

Incubation conditions: 35 ± 2°C / 2 - 3 days under anaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Lactobacillus plantarum</i>	8014	50-100	good
<i>Escherichia coli</i>	25922	≥10 ³	inhibited

• 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. Spiegel, C.A. 1991. Bacterial vaginosis. Clin. Microbiol. Rev. 4: 485-502.
2. Hartemink, R., and F.M Rombouts. 1999. Comparison of media for the detection of bifidobacteria, lactobacilli and total anaerobes from faecal samples. J. Microbiol. Meth. 36: 181-192
3. Rogosa, M. et al. 1951. A selective medium for the isolation and enumeration of oral and fecal lactobacilli. J. Bacteriol. 62 : 132

• PACKAGE

Cat. No : MB-D1026 Dental LactoBacilli Agar	500 G
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• MICROBIAL CULTURE IMAGES



Lactobacillus plantarum ATCC 25922



Escherichia coli ATCC 25922 (≥10⁹ CFU)

Incubation conditions : 35 ± 2°C 2 - 3 days under anaerobic condition