

Litmus Milk Agar



Medium used for the identification and determination of microorganisms on the basis of the metabolic reaction in milk and the maintenance of lactic acid bacteria.

• CONTENTS (Liter)

Skim Milk Powder	100.0 g
Sodium Sulfite	0.5 g
Agar	15.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 115.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 5 minutes. DO NOT OVERHEAT. Cool to 45 - 50°C in water bath. Aseptically add 10 mL of Litmus supplement (MB-L0790). Mix well. Pour into petri dishes.

Litmus supplement

1 vial contents (each vial is sufficient for 5 L of medium)

Litmus	2.5 g
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• INTERPRETATION

Litmus Milk Agar is a medium used for the identification and determination of microorganisms on the basis of the metabolic reaction in milk and the maintenance of lactic acid bacteria. Skim milk powder provides casein, lactose, lactalbumin, lactoglobulin. Agar is the solidifying agent. Litmus is the pH indicator.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 72 hours up to 7 days under appropriate conditions. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : opaque

Color: purple gray

Incubation conditions: 30 - 35°C / 18 - 72 hours up to 7 days / appropriate conditions

Microorganism	ATCC	Growth	Acid	Peptonization
<i>Lactobacillus acidophilus</i>	4356	good	+ (pink)	-
<i>Clostridium perfringens</i>	13124	good	+ (pink)	-
<i>Clostridium sporogenes</i>	11437	good	+ (pink)	+ (clear zone)
<i>Escherichia coli</i>	25922	good	+ (pink)	-
<i>Pseudomonas aeruginosa</i>	27853	good	-	+ (clear zone)

• 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, MacFaddin, J.D. (1985). Media for isolation- cultivation- identification- maintenance medical bacteria, vol 1, p. 275-284, Williams & Wilkins, Baltimore, MD.

• PACKAGE

Cat. No : MB-L0782 Litmus Milk Agar	500 G
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