

LNA (Leeming & Notman Agar) Modified



Medium used for the isolation and cultivation of *Malassezia* and *Candida* spp.

• CONTENTS (Liter)

Glucose	20.0 g
Malt Extract	50.0 g
Poly Peptone	1.0 g
Bile Salts	20.0 g
Agar	15.0 g
Final pH = 6.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 106.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Add 0.1 mL of Tween 40 supplement (MB-T3003) and 0.02 mL of Glycerol supplement (MB-G1821). Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

LNA (Leeming & Notman Agar) Modified is the medium used for the isolation and cultivation of *Malassezia* and *Candida* spp. This medium has been widely replaced the use of Sabouraud Dextrose Agar. Glucose is a carbohydrate source for fermentation. Malt Extract and poly peptone provide nitrogen, carbon, vitamins and minerals. Bile salts is a selective agent to inhibit Gram-positive organisms. Agar is the solidifying agent. Glycerol and tween 40 are added for the growth of most species of *Malassezia* spp.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 48 - 72 hours up to 14 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: dark beige

Prepared medium

Appearance: clear

Color: medium amber

Incubation conditions: 35 ± 2°C / 48 - 72 hours up to 14 days

Microorganism	ATCC	Growth
<i>Malassezia furfur</i>	14521	good
<i>Candida albicans</i>	10231	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. Leeming JP, Notman FH (1987) Improved methods for isolation and enumeration of *Malassezia furfur* from human skin. *J Clin Microbiol* 25: 2017-2019
2. Pathogenic Yeasts : Ruth Ashbee, Elaine M Bignell 212-214p Imperial College London Div. Investigative Campus London. United Kingdom SW7 2AZ.

• PACKAGE

Cat. No : MB-L0864 LNA (Leeming & Notman Agar) Modified	500 G
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