

LNB (Leeming & Notman Broth) 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
Final pH = 6.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 91.0 G of powder in 1 L of distilled or deionized water. Add 0.1 mL of Tween 40 supplement (MB-T3003) and 0.02 mL of Glycerol supplement (MB-G1821). If necessary, adjust pH to 6.2 ± 0.2. 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. Pour into tubes.

• INTERPRETATION

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

• TECHNIC

Inoculate the specimen using a sterile needle 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-L0865 LNB (Leeming & Notman Broth) Modified	500 G
---	-------