

Department	Micro Laboratory	Document no	MICLAB – METHOD 009		
Title	Preparation of Malt Extract Agar				
Prepared by:		Date:		Supersedes:	
Checked by:		Date:		Date Issued:	
Approved by:		Date:		Review Date:	

1. **PURPOSE**

This operator instruction describes the method for the preparation of Malt Extract Agar used in the microbiology laboratory.

2. **SCOPE AND APPLICATION**

Malt Extract Agar is a medium used for detection, isolation and enumeration of yeasts and moulds.

3. **MATERIALS REQUIRED LIST**

- 3.1 Plastic spoon
- 3.2 Beaker (microwaveable)
- 3.3 Measuring cylinder
- 3.4 R O water
- 5.1 Malt Extract Agar (Oxoid CM59)
- 5.2 1N NaOH, 1N HCl
- 5.3 Plastic pipettes
- 5.4 Clean glass bottles

4. **WORK INSTRUCTION**

- 4.1 Weigh out 50g per litre of Malt Extract Agar powder into a beaker.
- 4.2 Add approximately half the required volume of RO water, mix, and bring to the boil to dissolve in the microwave.
- 4.3 Make up to required volume with RO water.
- 5.1 Adjust pH to 5.4 ± 0.2 .
- 4.5 Dispense 150mL into clean glass bottles.
- 4.6 Sterilize by autoclaving at 115°C for 10 minutes.
- 4.7 Final pH after sterilization should be 5.4 ± 0.2 .

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QUALITY CONTROL REQUIREMENTS			
STORAGE:	BULK - 6 months		
	POURED PLATES - 2 weeks		
<u>ECOMETRIC EVALUATION / FERTILITY</u>			
CONTROL ORGANISM:	Positive: <u>C.albicans</u>	Negative: N/A	
	A.T.C.C: 10231		
	Growth Index: ≥ 3	Growth Index: N/A	
INCUBATION CONDITION:	Temperature: $25^{\circ} \pm 1^{\circ}\text{C}$	Time: 3-5 days	

5. REFERENCE DOCUMENTS

5.1 The Oxoid Manual 8th Edition 1998

6. REVIEW HISTORY

Version #	Revision History
MICLAB – METHOD 009	New