

Department	Micro Laboratory	Document no	MICLAB – METHOD 026		
Title	Method for preparation of double strength Lauryl Tryptose Broth (Oxoid CM451)				
Prepared by:		Date:		Supersedes:	
Checked by:		Date:		Date Issued:	
Approved by:		Date:		Review Date:	

1.0 SUMMARY OF CHANGES

Version #	Revision History
MICLAB – METHOD 026	New

2.0 PURPOSE

This document describes the method for preparation of double strength Lauryl Tryptose Broth (Oxoid CM451).

3.0 SCOPE

Lauryl Tryptose Broth is used to determine the presence of coliforms.

4.0 RESPONSIBILITY \ BUSINESS RULES

All microbiology staff.

5.0 PROCEDURE

5.1 Materials and Reagents required

- 5.1.1 Plastic spoon
- 5.1.2 Measuring Cylinder
- 5.1.3 RO Water
- 5.1.4 Microwaveable beaker
- 5.1.5 Plastic Pipettes
- 5.1.6 Lauryl Tryptose Broth (LTB) Powder (Oxoid CM451)
- 5.1.7 Automatic dispenser
- 5.1.8 Large test tubes, test tube caps and durham tubes
- 5.1.9 Large test tube rack
- 5.1.10 1N NaOH and 1N HCl

5.2 Method

- 5.2.1 Weigh out 71.2g per litre of LTB powder into a beaker.
- 5.2.2 Add required volume of RO water and mix to dissolve.
- 5.2.3 Adjust pH to 6.9 using 1N NaOH or 1N HCl.
- 5.2.4 Place durham tube into large test tubes in an inverted position.

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- 5.2.5 Dispense 10mL into large test tubes using automatic dispenser.
- 5.2.6 Sterilise by autoclaving at 121°C for 15 minutes.
- 5.2.7 Final pH after sterilisation should be 6.8 ± 0.2.
- 5.2.8 Record all details of media preparation on SF150712.

5.3 Quality Control Requirements

QUALITY CONTROL REQUIREMENTS			
STORAGE:	BULK	-	N/A
	TEST TUBES	-	4 months
ECOMETRIC EVALUATION / FERTILITY			
CONTROL ORGANISMS:			
Positive:	E.coli N.C.T.C 9001	Negative:	Ent.aerogenes N.C.T.C 10006
Growth Index:	Growth & gas production	Growth Index:	Growth & no (or slight) gas production
INCUBATION CONDITIONS:			
Temperature:	37 ± 1°C	Time:	24 - 48 hours

6.0 DEFINITIONS / ACRONYMS

NA