Department	Micro Laboratory		Document no	MICLAB – METHOD 017	
Title	Method for Preparation of DNase Agar (Oxoid CM321)				
Prepared by:		Date:		Supersedes:	
Checked by:		Date:		Date Issued:	
Approved by:		Date:		Review Date:	

1.0 SUMMARY OF CHANGES

Version #	Revision History
MICLAB – METHOD 017	New

2.0 PURPOSE

This document describes the method for preparation of DNase Agar (Oxoid CM321).

3.0 SCOPE

DNase Agar is used for the detection of microbial deoxyribonuclease enzymes, particularly from Staphylococci. The DNase reaction for Staphylococci is an indication of pathogenicity; it cannot be used as the sole criteria for identification.

4.0 RESPONSIBILITY \ BUSINESS RULES

All microbiology staff at GMP site.

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 DNase Agar powder (Oxoid CM321)

5.1.7 Clean Glassware (flat medical or 250mL schott bottles)

5.1.8 Sterile Petri dishes

5.1.9 1N NaOH and 1N HCl

5.2 Method

5.2.1 Weigh out 39g per litre of DNase Agar powder into a beaker.

5.2.2 Add required volume of RO water and mix well.

5.2.3 Dissolve on high setting in microwave with frequent stirring.

5.2.4 Adjust pH to 7.5 using 1N NaOH or 1N HCl.

5.2.5 Dispense 150mL or 300mL volumes into flat medical bottles or schott bottles respectively.

5.2.6 Sterilise by autoclaving at 121^{o}C for 15 minutes.

5.2.7 Final pH after sterilisation should be 7.3 $\pm$ 0.2.

5.2.8 Mix gently before pouring into sterile petri dishes.

5.2.9 Record all details of media preparation on SF150712.

5.3 Quality Control Requirements

QUALITY CONTROL REQUIREMENTS			
STORAGE:	BULK	-	6 months in dark cupboard
	POURED PLATES	-	2 weeks in fridge (2-8^{o}C)
ECOMETRIC EVALUATION / FERTILITY			
CONTROL ORGANISMS:			
Positive:	Staphylococcus aureus N.C.T.C 6571	Negative:	N/A
Growth Index:	≥ 3	Growth Index:	N/A
INCUBATION CONDITIONS:			
Temperature:	37 ± 1°C	Time:	18 hours

6.0 DEFINITIONS / ACRONYMS

NA