

Department	Micro Laboratory	Document no	MICLAB – METHOD 015		
Title	Microbiological Method for The Testing of Disinfectants				
Prepared by:		Date:		Supersedes:	
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1.0 **SUMMARY OF CHANGES**

Version #	Revision History
MICLAB – METHOD 015	New

2.0 **PURPOSE**

This document describes the method for the testing of disinfectants.

3.0 **SCOPE**

Disinfectants are used by the microbiological laboratory to decontaminate work surfaces and spills.

4.0 **RESPONSIBILITY \ BUSINESS RULES**

All microbiology staff at the GMP Site.

5.0 **PROCEDURE**

5.1 Materials and Reagents required

- 5.1.1 Inactivating broth - Lethen broth + 2% Lecithin + 4% Tween 80
- 5.1.2 Nutrient Agar (NA) (OxoidCM3): pre-poured plates
- 5.1.3 Vortex
- 5.1.4 Sterile 1mL pipettes
- 5.1.5 Transfer pipette
- 5.1.6 Sterile pipette tips
- 5.1.7 Disinfectant testing report
- 5.1.8 SOP - Identification of Contaminants

5.2 Method

- 5.2.1 Pipette 1mL of the disinfectant sample into 9mL of inactivating broth and vortex. This is a 1 in 10 dilution.
- 5.2.2 Place ten drops each containing 20µL of the 1 in 10 dilution onto two NA plates i.e. 10 separate drops per plate.
- 5.2.3 Incubate one plate at 37 ± 1°C for 3 days and the other plate at 25 ± 1°C for 7 days. Incubate plates in an upright position.
- 5.2.4 Record results as Colony Forming Units (cfu) / plate on SF020273.

5.3 Acceptance Criteria

- 5.3.1 The acceptable limit for disinfectants is <5 colonies on either plate.
- 5.3.2 Identify contaminants as per Identification of Contaminants QO-S00103.
- 5.3.3 Raise a Microbiological Laboratory Investigation if the count is ≥ 5 colonies on either plate.