

Department	Micro Laboratory	Document no	MICLAB – METHOD 006		
Title	Method for Preparation of Hard Water				
Prepared by:		Date:		Supersedes:	
Checked by:		Date:		Date Issued:	
Approved by:		Date:		Review Date:	

1.0 **SUMMARY OF CHANGES**

Version #	Revision History
MICLAB – METHOD 006	New

2.0 **PURPOSE**

This document describes the method of preparation of Hard Water.

3.0 **SCOPE**

Hard water is used for preparation of test organisms in the TGA test.

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 Beaker
- 5.1.3 Measuring Cylinder
- 5.1.4 RO water
- 5.1.5 Automatic dispenser
- 5.1.6 Anhydrous Calcium Chloride (CaCl₂)
- 5.1.7 Anhydrous Magnesium Chloride (MgCl₂)
- 5.1.8 McCartney bottles

5.2 Method

- 5.2.1 Dissolve 0.304g/L of CaCl₂ and 0.065g/L of MgCl₂ in required volume of RO water, mix well.
- 5.2.2 Dispense required amount into McCartney bottles.
- 5.2.3 Sterilise by autoclaving at 121°C for 15 minutes.
- 5.2.4 Expiry date is 1 year from date of preparation.
- 5.2.5 Record all details of media preparation in SF150712.
- 5.2.6 NOTE: If anhydrous form not available use hydrated form but compensate for water.
 - e.g. CaCl₂ x 2H₂O - 0.4g
 - MgCl₂ x 6H₂O - 0.14g
 - Distilled water - 1L

6.0 **DEFINITIONS / ACRONYMS**

N/A.