

SOP
#1

Subject **Decalcification of Tissue up to Sectioning** Sheet **1** of **1**

Rev 1	Effective Date	Author
9/13/17	9/13/17	Fimbres

1. PURPOSE

1.1 The purpose of this protocol is to decalcify tissue as to make it usable for microtomy.

2. SCOPE

2.1 This SOP can be used on bone sections and calcified arteries submitted to TACMASR.

3. RESPONSIBILITIES

3.1 The person using these materials must be aware of the lab's rules and regulations and use safety precautions when necessary.

4. MATERIALS and EQUIPMENT

4.1 Tissue to decalcify

4.2 10% formalin

4.3 Running distilled water source

4.4 Formical-2000 (Formic acid, EDTA, decalcifier) – American Master Tech, Item # CDF20QT

4.5 (Microtome and associated sectioning tools)

5. SAFETY AND CAUTIONARY NOTES

5.1 Gloves should be worn when handling formalin and Formical-2000.

5.2 Prior knowledge of tissue decalcifying times expected

6. PROCEDURE

6.1 Fix section in 10% buffered formalin.

6.2 Wash section in running deionized water for at least 3 minutes

6.3 Immerse rinsed section in Formical-2000 for 2-6 hours depending on calcification of section

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6.5 Sectioning may be handled as non-decalcified tissue for processing, embedding and sectioning.

6.6 If chipping occurs on microtome, paraffin embedded sections may be further decalcified by placing block face down in a dish of Formical-2000, on ice, for 10 minutes.

6.6.1 Rinse block and place on ice block to continue sectioning.

6.6.2 Repeat if necessary