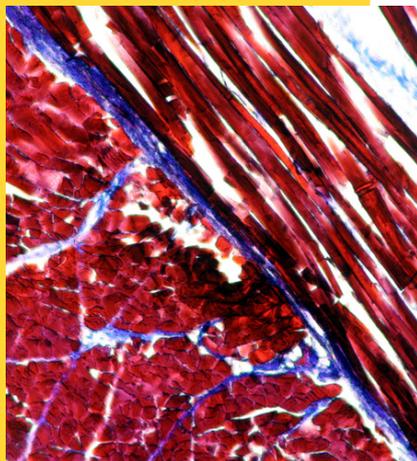


# OSTEOCAL MILD BLUE



MenidiMedica  
Biotechnology Applications

**LIGHT BLUE FIXATIVE AND DECALCIFYING SOLUTION IDEAL FOR BONE AND HARD TISSUE IN HISTOLOGY**

## INTRODUCTION

In the field of histology, the microscopic analysis of bone and hard tissue samples is essential for medical research and diagnosis. To achieve accurate results, it is crucial to conduct decalcification of these samples. OsteoCal Mild Blue is the solution you need for efficient and precise decalcification.

## THE DECALCIFICATION PROCESS

Decalcification is the process of removing calcium from bone and hard tissue, allowing for further microscopic analysis. The duration of decalcification varies based on the sample's size and density. OsteoCal Mild Blue, containing inorganic hydrochloric acid, rapidly softens the tissue and prepares it for analysis. This solution is suitable for bone, teeth, and keratinized tissue samples such as filiform warts and nails.

## PRODUCT DESCRIPTION

- **OSTEOCAL MILD BLUE:** Light blue fixative and decalcifying solution for bone and hard tissue in histology. Contains formaldehyde and hydrochloric acid.
- **Other Compatible Reagents:** Explore our range of complementary products, including fixatives, dehydrating agents, clearing agents, infiltration agents, immersion media, staining reagents, and more.

## PREPARING THE SAMPLE FOR DECALCIFICATION

1. **Fixation:** Ensure the tissue sample is properly fixated.
2. **Immerse:** Place the tissue sample into OsteoCal Mild Blue for complete decalcification.

## DECALCIFICATION GUIDELINES

### Bone, Teeth, Hard Tissue:

Duration: 6-8 hours for a 1 x 1 x 0.3 cm bone (e.g., femur).

### Mildly Calcified Tissue (e.g., blood vessels):

Duration: 30-60 minutes.

### Keratinized Tissue (e.g., nails, filiform warts):

Duration: 15-60 minutes with the cross-section oriented downward.

## ENSURING COMPLETION

Use a needle to puncture an unimportant part of the sample to determine the end of the decalcification process. Incomplete decalcification can be supplemented by immersing the section in OsteoCal Mild Blue for 15-20 minutes, followed by rinsing with tap water.

## RESULTS

Decalcified tissue will resemble cartilage, making it suitable for further histological procedures.

## NOTE

Prolonged decalcification may negatively impact tissue morphology and limit subsequent nucleus staining. For immunohistological methods requiring intact blood antigens, consider using OsteoCal Yellow.

## USABILITY

30 ml of OsteoCal Mild Blue, enough to cover the entire section, is sufficient for 2 uses. Ensure the solution remains clear and uncontaminated.

## SAMPLE PREPARATION AND DIAGNOSTICS

Follow proper sample collection and preparation techniques, use modern technology, and mark samples clearly. Only authorized and qualified personnel should conduct staining and diagnostics.

## SAFETY AND ENVIRONMENTAL PROTECTION

Handle the product following safety and environmental protection guidelines. Dispose of used and expired solutions as special waste according to national guidelines. Adhere to safety measures for protecting human health.

## STORING AND EXPIRY

Store OsteoCal Mild Blue in its original packaging at temperatures between +15°C to +25°C, avoiding freezing and direct sunlight. Refer to the product label for the date of manufacture and expiry date.