
PRODUCT SPECIFICATION SHEET

Alizarin Red Staining Solution

Calcium Stain for Osteogenic Cells

Alizarin Red is a ready-to-use anthraquinone stain for calcium deposits found in mature osteoblasts or osteoblasts differentiated from mesenchymal stem cells.

Catalog No.: 1022-100

Quantity: 100 mL

Storage & Stability: Stable at room temperature for one year.

Instructions:

PREPARATION FOR STAINING

1. Cell culture has been fully differentiated for a minimum of three weeks.
2. Alternatively, tissue sample bearing osteocytes has been properly mounted and fixed.

FIXATION

1. Remove medium from wells (volumes used assumes a 6-well plate).
2. Gently add 1 mL Phosphate-Buffered Saline (PBS).
3. Aspirate PBS.
4. Add 3 mL of absolute ethanol and fix for 30 minutes.
5. Remove ethanol and allow well(s) to dry completely.
6. Wells may be stored indefinitely until ready to stain.

STAINING OSTEOBLASTS

1. Add 1 mL of Alizarin Red per well and gently tilt side-to-side until solution completely covers well.
2. Incubate for 15 minutes at room temperature.
3. Remove Alizarin Red from the well(s).
4. Using care, rinse well(s) three times with 1 mL deionized water and allow to dry.
5. Take extreme care when rinsing well or calcium crystals may be dislodged and rinsed away.
6. Pictures may be taken immediately.