

HBMI Core Decalcification Solutions

All of our samples are decalcified in one of the two 14% EDTA solutions below (as specified by the Investigator). Sample cassettes are either gently stirred in a container on a magnetic stir plate or agitated on a platform rocker with decalcification solutions changed twice weekly.

14% EDTA Decal Solution, standard solution

Deionized water ------ 3.40 L

HCI [36.5-38%] ------ 110 ml

EDTA tetrasodium salt dihydrate, (CAS#10378-23-1) ----- 560 g

Mix water and HCI well before adding the EDTA to ensure rapid dissolution of powder.

- PH should be 7.3-7.4; following adjustment of pH, bring total volume to 4 L with ddH₂O
- Samples generally decalcify for two weeks in this solution, depending on their size, with the solution changed twice weekly.

14% EDTA Decal Solution, Webb Jee^{*} solution

Deionized water ----- 3.40 L

Glacial Acetic Acid ----- 72 ml

EDTA tetrasodium salt dihydrate, (CAS#10378-23-1) ----- 560 g

Mix water and Acetic Acid well before adding the EDTA to ensure rapid dissolution of powder.

- ✤ pH should be 7.4-7.6; following adjustment of pH, bring total volume to 4 L with ddH₂O.
- Samples generally decalcify for one to two weeks in this solution, depending on their size, with the solution changed twice weekly.
- This decalcification solution produces the best results for Safranin O/Fast Green staining.

*Kimmel D, Jee WSS, Stain Technology, 50(2):83, 1975.



MEDICINE of THE HIGHEST ORDER