



HiDecal (Mild decalcifying solution)

R084

Intended use

HiDecal (Mild Decalcifying solution) is recommended for decalcification of sensitive, hard tissue and keratinized tissue.

Composition**

Ingredients

Ethylene diamine Tetra acetic acid (EDTA)	177.0 gm
Distilled water	1,000.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

1. Place all the tissues to be decalcified in to a vessel containing excess of HiDecal (Mild Decalcifying solution) with section surface facing downwards.
2. Decalcify them completely in this solution at room temperature.
3. Decalcification time may vary from 1week to 8 weeks depending on the size of the sample and structural density of the tissue.
4. Rinse the material with tap water.
5. Decalcified tissue can be processed for histological studies in the same way as other material of the corresponding size.
6. Staining of decalcified tissues can be carried out according to the standard procedures (as applicable).

Principle And Interpretation

Decalcification describes the technique for removing mineral from bone or other calcified tissue so that good-quality paraffin sections can be prepared that will preserve all the essential microscopic elements. Decalcification is carried out after the specimen has been thoroughly fixed and prior to routine processing to paraffin. In routine histological procedures, decalcifying solution is used for decalcification of sensitive, hard tissues and keratinized tissues. HiDecal solution (Mild Decalcifying solution) is a slow acting, gentle, non-acid decalcifying solution which has the advantage of not damaging the sensitive calcium-containing tissue. Calcium is removed by chelation. It preserves the antigen structure in the tissue. The time take for decalcification may vary from 1 week to 8 weeks at room temperature depending on the size of the sample and structural density of the tissue. X-raying the sample is the best way to ensure that all traces of calcium have been removed.

Type of specimen

Clinical samples: sensitive, hard tissue and keratinized tissue.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines.

Warning and Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. The times taken for decalcification are likely to be different if used on different weights of bone and other teeth than premolars, as the decalcification time is dependent on the size and structural density of the hard tissue.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Colourless solution.
- **Clarity** : Clear without any precipitation.
- **Test** : For decalcification of Bones and other hard Tissue

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition. Vol. 2.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015)
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4. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.
5. Lynch SR. 4th ed. London: W. B. Saunders; 1983. Lynch's Medical Laboratory Technology; pp. 937-944.
6. Bhaskar SN. 10th ed. New Delhi: CBS Publishers and Distributors; Orban's Oral Histology and Embryology; pp. 349 - 354.



Storage temperature



Do not use if package is damaged



In vitro diagnostic medical device



CE Marking



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