

Decal Clear

Description:

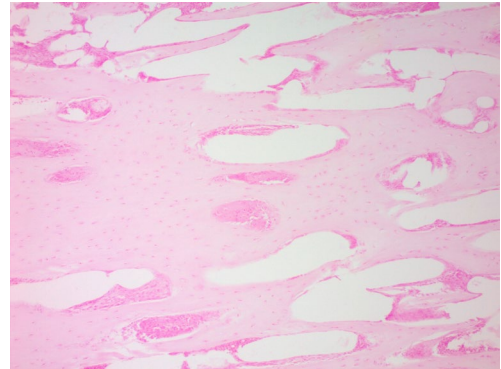
Decal Quick Clear utilizes hydrochloric acid and a chelating agent to quickly bind and remove all calcium from bone/calcified tissues. This allows the sample to then be sectioned with standard microtomy procedures. This reagent is a standard HCl decalcification reagent, for a more concentrated version and quicker rate decalcification see ScyTek’s Decal Quick Clear solution (item: DQC). This solution is ideal for processing tissues that will undergo special staining and procedures other than Immunohistochemistry. Hydrochloric acid-based reagents can negatively affect staining results of immunohistochemical procedures and other decalcification solutions should be considered.

Availability/Contents:

<u>Item #</u>	<u>Volume</u>
DCR999	1 Liter
DCR3800	1 Gallon

Uses/Limitations

Not to be taken internally.
For In-Vitro Diagnostic use.
Histological applications.
Do not use if reagent become cloudy.
Do not use past expiration date.
Use caution when handling reagent.
Non-Sterile.



Avian bone stained with the Calcium Von Kossa procedure (ScyTek item: CVK-1) showing complete decalcification.

Ordering Information and Current Pricing at www.scytek.com

Storage/Safety:


Room Temperature (18-25°)


Precautions:

Thoroughly rinse specimen with water when transferring to and from fixative and decalcification solution. Formalin and HCl can react to create a hazardous carcinogen. This solution presents several hazards – consult SDS before using.

Procedure (Full specimens):

1. Fix specimen per usual, including bone, and rinse thoroughly in water before decalcification.
2. Suspending specimen in solution will facilitate decalcification by allowing calcium salt to sink away from sample.

Storage: 18° C  25° C

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3. Incubate specimen for several hours or until completely decalcified based on specimen thickness and levels of calcification. Verification methods include x-ray and chemical end-point determination. Rinse thoroughly in water after decalcification and whenever returning specimen to formalin.

Note: Insufficient rinsing after decalcification may negatively impact any subsequent iron staining (Potassium Ferrocyanide/HCl).


4. Continue with tissue processing and cutting per usual. If specimen was not fully decalcified it may be surface decalcified (procedure below) while cutting to remove remaining calcification.


Procedure (Surface Decal):

1. Course face the embedded tissue block to expose desired area of tissue.
2. Place the tissue block face down in a small dish with Decal Clear for 30-60 minutes with occasional agitation.
3. Rinse thoroughly in water and blot block dry.

Note: Insufficient rinsing after decalcification may negatively impact any subsequent iron staining (Potassium Ferrocyanide/HCl).

4. Section block as usual. Surface decal only allows a few calcium-free sections to be obtained. To obtain additional sections repeat surface decal procedure.

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