

## DATA SHEET

### *DeCal* Retrieval Solution Cat. Nos. HK089-5K

Doc. No. HK089-5K, Rev. No. F  
Date of Release: 06-October, 2011

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#### Reagent Supplied

One bottle (250 ml)  
Ready-to-use *DeCal* Retrieval Solution

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#### Intended Use

This Product may be used to recover antigenicity in formalin-fixed, paraffin- or celloidin-embedded, acid- or EDTA-decalcified tissues. This product is a General Purpose Reagent, suitable for diagnostic histopathology, laboratory and research use.

#### Description

*DeCal* Retrieval Solution is a novel product developed at BioGenex (U.S. Pat. No. 5,578,452) to restore antigenicity in decalcified tissue. Tissue sections are pretreated prior to immunostaining by immersing them for 30 minutes in the *DeCal* Retrieval Solution at room temperature. (Caution: Do NOT heat in a microwave oven). Initial tests were performed on 60 decalcified celloidin-embedded tissues stained with 15 different monoclonal antibodies (Shi et al, Acta Otolaryngol [Stockh] 113:48, 1993 and unpublished results). Twelve of these antibodies showed strong positive staining after the application of the *DeCal* Retrieval Solution technique. These antibodies included: cytokeratins AE1 and 5D3, vimentin, neurofilament, GFAP, desmin, muscle specific actin, S-100 and NSE. In addition, positive staining has also been observed for TdT in decalcified paraffin-embedded lymphoma tissues. This solution is particularly

useful in recovering antigenicity in acid-decalcified bone marrow.

#### Specifications

*DeCal* [Retrieval solution](#) is shipped ready to use. The solution can be reused one time (i.e., discard after two uses).

#### Storage, Handling, and Disposal

Store and use at room temperature away from heat or open flame. Do NOT heat in a microwave oven. *DeCal* Retrieval solution is a strongly alkaline, methanol-based solution containing sodium hydroxide. Dispose of in accordance with all applicable regulations.

#### Special Notes

**WARNING:** Flammable liquid, Corrosive. Poison. May be fatal if swallowed or absorbed through the skin. Exposure may cause severe eye or skin burns. Inhalation may cause severe irritation with burning pains of the respiratory tract. Ingestion may cause digestive tract burns with severe pain, vomiting, diarrhea, circulatory problems, and kidney failure. Consult the Material Safety Data Sheet for more health hazard information.

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#### Instruction For Preparation And Use

1. Mount tissue on positive-charged or coated slides.
2. Dry [slides](#) for 1 hour at 60°C
3. Deparaffinize and rehydrate tissue sections.
4. Immerse slides in *DeCal* Retrieval Solution for 30 Minutes at room temperature.
5. Place slides in two changes of 100% methanol for 5 Minutes each.
6. Place slides in 70% methanol for 5 minutes.
7. Place slides in two changes of PBS for 5 minutes each.
8. Place slides in 0.3% Triton X-100 in PBS for 10 minutes.
9. Place slide in PBS for 5 minutes.
10. Begin standard immunostaining procedure.

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General Purpose Reagent suitable for diagnostic histopathology, laboratory and research use.

***Purchase of this product includes permission to practice U.S. patents No. 5,578,45 for non-commercial and non-reimbursable testing only. Please contact BioGenex for information regarding a license for any other use.***