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**DATA SHEET**  
**Antigen Retrieval solution (EDTA)**  
**PH-9.0 (10X)**  
**Recommended for use with the pressure cooker**

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**INTENDED USE**

Antigen Retrieval solution EDTA, PH-9.0 (10X) is designed to recover antigenicity of epitopes in formalin-fixed, paraffin-embedded tissue sections. These products are for Laboratory Use Only.

**DESCRIPTION**

**Antigen Retrieval solution EDTA, PH-9.0 (10X):**

These solutions perform antigen retrieval in formalin-fixed, paraffin-embedded tissue sections using pressure cooker and other manual methods. The main advantages that these solutions offer are:

1. Eliminates the use of enzymes as pretreatment in most cases, hence removing the guesswork from optimizing treatment time on the basis of tissue fixation.
2. Reduces background staining, and increase the availability of antigenic epitopes in tissues. One may need to use Avidin/ Biotin blocks to block endogenous biotin when using Biotin-Streptavidin based detection systems.
3. Reduces incubation time with primary antibodies
4. Better quality staining due to unique properties of solution.
5. Preserves morphology of tissues.
6. Non-toxic and non-flammable.

Please call BioGenex at Toll Free number (800) 421-4149 (USA only) or your local distributor for more information on the above-recommended products and their accessories.

**PRODUCT AVAILABILITY**

Name	Catalog Number	Format
Antigen Retrieval solution EDTA, PH-9.0 (10X)	HK549-XAK	1L
Antigen Retrieval solution (EDTA)	HK549-YAK	100mL

**PREPARATION OF REAGENTS**

The concentrated format of HK549-XAK and HK549-YAK is 10X concentrated, and should be diluted ten-fold with deionized water (mix one part of HK549-XAK/HK549-YAK with nine parts of deionized water). Shake to mix thoroughly.

**METHOD OF USE**

BioGenex has optimized the Antigen Retrieval protocol for a number of antibodies.

## **HK549-XAK:**

### **For Pressure Cooker**

1. After the dewaxing step, wash with DI water and immediately transfer the slides to a tank containing HK549-XAK/HK549-YAK working solution.
2. Treat for 10-15 min in a pressure cooker.
3. Remove the tank from the pressure cooker and allow the slides to cool for 20mins on the bench.
4. Wash slides in DI water for 5 min. Then transfer them to wash buffer used in routine Histology Techniques and keep the slides in buffer for 5 min or until they are ready to be stained.

### **For Nordic Ware Microwave Tender Cooker**

1. After the dewaxing step, wash with DI water and immediately transfer the slides to a tank containing HK549-XAK/HK549-YAK working solution.
2. Treat for 10-15 min in Nordic Ware Microwave Tender Cooker.
3. Remove the tank from the Nordic Ware Microwave Tender Cooker and allow the slides to cool for 20mins on the bench.
4. Wash slides in DI water for 5 min. Then transfer them to wash buffer used in routine Histology Techniques and keep the slides in buffer for 5 min or until they are ready to be stained.

### **For EZ-RT Antigen Retrieval System**

1. After the dewaxing step, wash with DI water and immediately transfer the slides to a tank containing HK549-XAK/HK549-YAK working solution.
2. Run three cycles, each for 10 min at 95°C, 98°C, and 98°C in EZ-RT Antigen Retrieval System respectively.
3. Remove the tank from the EZ-RT Antigen Retrieval System and allow the slides to cool for 20mins on the bench.
4. Wash slides in DI water for 5 min. Then transfer them to wash buffer used in routine Histology Techniques and keep the slides in buffer for 5 min or until they are ready to be stained.

**Note: Please do not use polypropylene Coplin jars as they may melt at high temperature. Use fresh solution for each batch of slides.**

## **STORAGE AND HANDLING**

<b>HK549-XAK (10X)</b>	Store solution at 2 °C to 8 °C.
<b>HK549-YAK (10X)</b>	Store solution at 2 °C to 8 °C.

## **PRECAUTIONS**

Solutions will reach high temperature during use, please handle with care. Wear suitable protective clothing, thermal protective gloves and eye/face protection. Not regarded as a health or safety hazard under current legislation.

## **LIMITATIONS**

The Antigen Retrieval protocol is recommended for use with tissues fixed *with formalin only*. Other fixatives or fixation procedures may not produce comparable results. Interpretation of the staining results is solely the responsibility of the user. Some tissues may show heat artifact.

## **REFERENCE ARTICLES**

1. Shi, S. R., et al. Antigen retrieval technique: a novel approach to immunohistochemistry on routinely processed tissue sections. *Cell Vision* 2:6-22, 1995.
2. Shi, S.R., et al. Antigen retrieval immunohistochemistry under the influence of pH using monoclonal antibodies. *J. Histochem. Cytochem.* 43:193-201, 1995.