

DATA SHEET
EZ -AR™ Elegance Solutions
For Use with on the Xmatrx® Staining System and Manual

Doc. No. 932-HX031-YCD, Rev.K

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Name	Catalog Number	No. of Slides	Catalog Number	Volume
EZ-AR™ 1 Elegance RTU	HX031-YCD	200	HK546-XAK	1000ml
EZ-AR™ 2 Elegance RTU	HX032-YCD	200	HK547-XAK	1000ml

Reagents Supplied: One of the following

EZ-AR™ 1 Elegance and EZ-AR™ 2 Elegance Solution (HX031-YCD/ HK546-XAK, HX032-YCD/ HK547-XAK,):

These solutions perform antigen retrieval in formalin-fixed, paraffin-embedded tissue sections using heat retrieval. Different tissues require different pretreatment conditions. Depending on the nature of the tissue and the antigen retrieval requirement, one of the EZ-AR™ Elegance solutions may be used. EZ-AR™ 1 Elegance is Citra-based solution, EZ-AR™ 2 Elegance is Tris based solution. The use of EZ-AR™ 1 Elegance and EZ-AR™ 2 Elegance in combination with XDeWax™ ensures uniform dewaxing, rehydration and antigen retrieval. HK546-XAK (EZ-AR™ 1 Elegance) and HK547-XAK (EZ-AR™ 2 Elegance) solution may be reused upto 3-4 times.

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: EZ-AR™ Elegance solutions increase the availability of antigenic epitopes in tissues due to their capability of being heated up to a temperature of 110°C without boiling. One may need to use Avidin/ Biotin blocks to block endogenous biotin when using Biotin-Streptavidin based detection systems. (Recommended volume for slide tanks is 250 ml ± 5 ml). If no. of slides are less than 24, then volume will be higher (270-280ml) than the recommended one.
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.

Storage and Handling

Store solutions at cold temperature (2° to 8°C) out of direct sunlight. These reagents are expiration dated. When properly stored, the reagents are stable to the date indicated on the label. The solution should be disposed of according to local, state and/or federal regulations. Upon disposal, flush with large volumes of water to prevent buildup in plumbing.

Intended Use

The EZ-AR™ solutions are intended to deparaffinize, rehydrate and recover antigenicity of epitopes in formalin-fixed, paraffin-embedded tissue sections. These products are designed for use with the Xmatrx® Staining System and manual staining purposes. These products are for Laboratory Use Only.

Standard Protocol

Please read the Operator's Manual for the Xmatrx® Staining System for information on using the instrument. The EZ-AR™ solution may be dispensed (if required) as a step in the protocols programmed on the Xmatrx® Staining System. This step occurs after the deparaffinization step with XDeWax™, if required for the antibody being used.

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For manual staining, after the deparaffinization step follow the antigen retrieval protocol for BioGenex **EZ-Retriever® IR System**.

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. Some tissues may show heat artifact.

Reference Articles

1. Shi, S.R., et al. Antigen retrieval in formalin-fixed, paraffin-embedded tissues: an enhancement method for immunohistochemical staining based on microwave oven heating of tissue sections. *J Histochem. Cytochem* **39**:741-748, 1991.
2. Gown, A. M., et al. Microwave-based antigenic unmasking: a revolutionary new technique for routine immunohistochemistry. *Appl. Immunohistochem.* **1**:256-266, 1993.
3. Shi, S. R., et al. Antigen retrieval technique: a novel approach to immunohistochemistry on routinely processed tissue sections. *Cell Vision* **2**:6-22, 1995.
4. Shi, S.R., et al. Antigen retrieval immunohistochemistry under the influence of pH using monoclonal antibodies. *J. Histochem. Cytochem.* **43**:193-201, 1995.

The above products and their methods are covered by one or a combination of any of the following patents: U.S. Patent No. 5,244,787; U.S. Patent No. 5,578,452; U.S. Patent No. 6,451,551; U.S. Patent No. 6,632,598; and their foreign equivalents, i.e. European Patent No. 0607422 and Japanese Patent No. 3,108,099; as well as related U.S. and Foreign Patents Pending.