

DATA SHEET

H&E Retrieval Solution (10X Concentrated)

Doc. No. 932-HK169, Rev. No. E
Date of Release: 18-Jul-2024

REAGENT SUPPLIED

HK169-5K: One bottle (100 ml) of 10X concentrated H&E Retrieval Solution. Store at 2-8°C.

INTENDED USE

This product may be used to restore nuclear detail for improved hematoxylin staining in formalin-fixed paraffin-embedded tissue.

DESCRIPTION

The Antigen Retrieval™ technique (U.S. Patent 5,244,787) is a novel method for the rescue of antigens from formalin-fixed tissue. It consists of heating tissue sections in a microwave oven in the presence of Antigen Retrieval solutions.

H&E Retrieval Solution is specially formulated for use with a modification of the microwave pretreatment method. Its use will help recover nuclear staining in burnt tissues or overfixed formalin-paraffin sections.

PREPARATION OF H&E RETRIEVAL SOLUTION

Dilute the concentrated H&E Retrieval solution tenfold with de-ionized water (1 part concentrated H&E Retrieval Solution to 9 parts dH₂O).

METHOD OF USE

1. Prepare sections according to standard procedures. No special preparation is required if tissues are not boiled.
2. Deparaffinize slides in xylene and graded alcohol according to standard procedures.
3. Place 50 ml of working H&E Retrieval Solution in a Coplin jar. For a large number of slides, position slides in a Tissue-Tek® Slide Staining Holder (Baxter, Cat. No. S7636) and place 250 ml of working H&E Retrieval Solution in a Tissue-Tek White Staining Dish (Baxter, Cat. No. S7631-6). Do not place the slide holder in the staining dish.
4. Place the container with H&E Retrieval Solution in a microwave oven. Turn oven on high power until solution comes to a boil.
5. Remove container from oven. Immediately place the slides in the Coplin jar, or the slide holder into the staining dish. Let sit at room temperature for 15 minutes.
6. Rinse slides in several changes of distilled water.
7. Stain slides according to standard procedures for H&E staining.

STORAGE AND DISPOSAL

Store concentrated or working strength H&E Retrieval Solution at 2-8°C and dispose according to all applicable regulation.

LIMITATIONS

DATA SHEET
H&E Retrieval Solution
(10X Concentrated)

H&E Retrieval Solution is recommended for use with tissues fixed or overfixed *with formalin only*. Other fixatives or fixation procedures may not produce comparable results. This product is intended for research use only. Interpretation of the test results is solely the responsibility of the user.

REFERENCES

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, 1991.

Wright, K.R. Research Antigen Retrieval Solution (Letter to the Editor). *J Histotech* 17:81, 1994.

General Purpose Reagent
Suitable for diagnostic histopathology, laboratory and research use