

## Denaturing Solution (Elution Step)

### Ancillary Reagent

Control Number: 901-DNS001-082317

**Catalog Number:** DNS001H, L

**Description:** 25, 100 ml, prediluted

**Intended Use:**

For In Vitro Diagnostic Use

**Summary & Explanation:**

Denaturing Solution is used as an elution step when using a double stain technique (Biocare's 7-step double stain procedure). This will ensure that the second staining protocol will not cross react with the first staining protocol.

Solution A (yellow) is a concentrate that must be diluted with Solution B (red, dilution buffer) for proper elution. It is recommended that the Denaturing Solution be used at different dilutions depending on tissue fixation and the type of antigen retrieval method used (for details see protocol recommendations below).

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

1. 6 ml of Solution A (DNSA006)
2. 19 ml of Solution B (DNSB019)

1. 25 ml of Solution A (DNSA025)
2. 75 ml of Solution B (DNSB075)

**Materials and Reagents Needed But Not Provided:**

Microscope slides, positively charged  
Desert chamber\* (Drying oven)  
Positive and negative tissue controls  
Xylene (Could be replaced with a xylene substitute\*)  
Ethanol or reagent alcohol  
Decloaking chamber\* (Pressure cooker)  
Deionized or distilled water  
Wash buffer\*(TBS/PBS)  
Pretreatment Reagents\*  
Enzyme Digestion\*  
Avidin-Biotin Blocking Kit\* (Labeled Streptavidin Kits Only)  
Peroxidase block\*  
Protein block\*  
Primary antibody\*  
Negative Control Reagents\*  
Detection Kits\*  
Detection Components\*  
Chromogens\*  
Hematoxylin\*  
Bluing Reagent\*  
Mounting media\*

\* Biocare Medical Products: Refer to a Biocare Medical catalog for further information regarding catalog numbers and ordering information. Certain reagents listed above are based on specific application and detection system used. reagents listed above are based on specific application and detection system used.

**Storage and Stability:**

Store at room temperature. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at room temperature.

**Solution A and B: Dilute 1 part A with 1 part B**

- Formalin-fixed paraffin-embedded tissues.
- No pretreatment on tissues (digestion or antigen retrieval)
- Apply for 5 minutes and wash thoroughly in water

**Protocol Recommendations cont'd:**

**Solution A and B: Dilute 1 part A with 2 parts B**

- Formalin-fixed paraffin-embedded tissues
- Digestion, citrate buffer or Reveal
- Apply for 2-5 minutes and wash thoroughly in water

**Solution A and B: Dilute 1 part A with 3 parts B**

- Formalin-fixed paraffin-embedded tissues
- EDTA, high pH buffers and Borg Decloaker
- Apply for 2 to 5 minutes and wash thoroughly in water

1. Deparaffinize tissues and hydrate to water. If necessary perform a hydrogen peroxide block, wash in water, and rinse in PBS or TBS.
2. Apply first antibody with desired detection and chromogen. Wash in deionized water.
3. Apply the Denaturing Solution for 2-5 minutes. Wash in buffer.

**Limitations:**

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Biocare products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

**Quality Control:**

Refer to NCCLS Quality Assurance for Immunocytochemistry approved guidelines, December 1999 MM4-A Vol.19 No.26 for more information on tissue controls.

**Precautions:**

This product is not classified as hazardous. The preservative used in this reagent is Proclin 300 and the concentration is less than 0.25%. Overexposure to Proclin 300 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 300 in this product does not meet the OSHA criteria for a hazardous substance. Wear disposable gloves when handling reagents. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. Microbial contamination of reagents may result in an increase in nonspecific staining. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change. The MSDS is available upon request.

Consult OSHA, federal, state or local regulations for disposal of any toxic substances. Proclin™ is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates.

**Troubleshooting:**

Follow the reagent specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.