

# Renaissance Background Reducing Diluent

## Antibody Diluent

Control Number: 902-905-082317

**Catalog Number:** BRR 905 H,L

**Description:** 25, 100ml, Ready-to-use

### Intended Use:

For Research Use Only. Not for use in diagnostic procedures

### Summary & Explanation:

Renaissance Background Reducing Diluent is specifically formulated for certain types of antibodies that have a tendency to produce non-specific background staining in immunohistochemical techniques. Potent background reducing agents have been added to the antibody diluent that will dramatically reduce unwanted non-specific background staining in immunohistochemical procedure. It is especially effective for polyclonal antibodies such as synaptophysin, PLAP, kappa and lambda. The diluent can be used with all detection systems. The diluent is a colored-coded turquoise for identification. It can also be used on an automated staining system.

### Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

### Supplied As:

Proprietary combination of buffers, staining enhancers, stabilizers and preservative with a pH of  $7.3 \pm 0.1$  at RT.

### 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.

### Storage and Stability:

Store at 2°C to 8°C. 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 2°C to 8°C.

### Protocol Recommendations

Biocare's Renaissance Background Reducing Diluent was developed for use with primary antibodies. Please refer to the respective primary antibody datasheet for dilution information.

### Performance Characteristics:

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 NCCLS Quality Assurance for Immunocytochemistry approved guidelines, December 1999 MM4-A Vol.19 No.26 for more information on Tissue Controls.

### Precautions:

Reagents contain less than 0.1% Sodium azide. Concentration less than 0.1% is not reportable hazardous material according to U.S. 29 CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC.

Sodium azide ( $\text{NaN}_3$ ) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center of Disease Control, 1976, National Institute of Occupational Safety and health, 1976).

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.

Minimize microbial contamination of reagents or increase in nonspecific staining may occur. 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.

### 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.

### Limitations & Warranty:

There are no warranties, expressed or implied, which extend beyond this description. BIOCARE is not liable for property damage, personal injury, or economic loss caused by this product.