

DAB Substrate Buffer

Chromogen Component

Control Number: 901-DS854-082317

Catalog Number: DS854 H, MM

Description: 25 ml, 1L

Intended Use:

For In Vitro Diagnostic Use

Summary & Explanation:

3, 3' Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol and xylene. This product comes in a two-component system consisting of a liquid stable DAB chromogen and DAB substrate buffer. The color of the chromogen solution can vary from pale (yellowish) brown to orange.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

Liquid, clear

Materials and Reagents Needed But Not Provided:

Microscope slides, positively charged
Desert chamber* (Drying oven)
Positive and negative tissue controls
Xylene (Could be substituted with 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*
Hematoxylin*
Bluing Reagent*
Mounting medium*

* 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:

1. After application of Streptavidin-HRP, rinse tissue section in PBS Wash Buffer.
2. Mix 1 drop (32µl) of DAB Chromogen per 1.0 ml of DAB Substrate Buffer. For increased sensitivity, mix 2 drops of DAB Chromogen per 1.0 ml of DAB Substrate buffer. Make fresh each day.

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:

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.

Warnings:

1. DAB is known to be a suspected carcinogenic.
2. Do not expose DAB components to strong light or direct sunlight.
3. Wear appropriate personal protective equipment and clothing.
4. DAB may cause sensitization of skin. Avoid contact with skin and eyes.
5. 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.