

# Betazoid DAB Chromogen Kit

## Chromogen

Control Number: 902-2004A-092017

**Catalog Number:** BRR2004 AH, AL, AMM

**Description:** 25 ml, 100 ml, 1000 ml

### Intended Use:

For Research Use Only. Not for use in diagnostic procedures.

### Summary & Explanation:

3, 3' Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining. 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 a DAB substrate buffer. The color of the chromogen buffer mixture may vary from colorless to pale brown. Staining properties are not affected by the color of the chromogen buffer mixture. Betazoid DAB is a superior formulation that is very stable. In some cases, antibody titers may increase by two-fold using this chromogen. Betazoid DAB can be used both manually and on automated stainers.

### Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

### Supplied As:

#### 25 ml Kit

Betazoid DAB Chromogen (BRR900AC) (1 x 1.0 ml)

Betazoid DAB Substrate Buffer (BRR900BH) (1 x 25 ml)

#### 100 ml Kit

Betazoid DAB Chromogen (BRR900AF) (1 x 4.0 ml)

Betazoid DAB Substrate Buffer (BRR900BH) (4 x 25 ml)

#### 1000 ml Kit

Betazoid DAB Chromogen (BRR900AG20) (2 x 20 ml)

Betazoid DAB Substrate Buffer (BRR900BMM) (1 x 1000 ml)

### 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 HRP detection, rinse tissue section in PBS or TBS Wash Buffer.
2. Mix 1 drop (32ul) of DAB Chromogen per 1.0ml of DAB Substrate Buffer. The DAB working solution is stable for 5 days if stored at 2-8°C.
3. Apply DAB mixture to tissue sections. Incubate for 2-5 minutes at room temperature.
4. Rinse in deionized water.

### Limitations:

This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

### 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. Consult OSHA, federal, state or local regulations for disposal of any toxic substances. 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 carcinogen.
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 and is located at <http://biocare.net/support/msds>.
6. Observe all federal, state and local environmental regulations.

### Technical Support:

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

### 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.