

Warp Red™ Chromogen Kit

Chromogen Kit

Control Number: 902-BRR806A-101817

Catalog Number: BRR806A H, S, M

Description: 25 ml, 100 ml, 500 ml

Intended Use:

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

Summary & Explanation:

Fast Red is a widely used chromogen for immunohistochemical staining. Warp Red is an advanced formulation of Fast Red that accelerates and intensifies staining. When in the presence of alkaline phosphatase (AP) enzyme, Warp Red produces a bright fuchsin-red precipitate that is insoluble in organic solvents and can be coverslipped with a permanent mounting media.

Typically, Warp Red achieves staining intensity in 5-7 minutes that is equivalent to the staining previously observed with Vulcan Fast Red in 15-20 minutes. If users desire even more intense staining, Warp Red can be extended to 10 minutes.

Warp Red is compatible with most alkaline phosphatase detection systems, including, MACH 2, MACH 3, MACH 4, 4plus, and PromARK. Warp Red may also be used in multiplex detection systems, such as MACH 2 Double Stain, for Multiplex IHC applications.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

25 ml size

1. Warp Red™ Chromogen (BRR806BE) 0.7 ml
2. Warp Red™ Buffer (BRR806CH) 25 ml

100 ml size

1. Warp Red™ Chromogen (BRR806BC) 2 x 1 ml
2. Warp Red™ Buffer (BRR806CL) 100 ml

500 ml size

1. Warp Red™ Chromogen (BRR806BC) 10 x 1 ml
2. Warp Red™ Buffer (BRR806CL) 5 x 100 ml

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)
Pretreatment reagents*
Enzyme digestion*
Avidin-Biotin Blocking Kit*(Labeled Streptavidin Kits Only)
Peroxidase block*
Protein block*
Primary antibody*
Negative control reagents*
Detection kits*
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.

Staining Protocol Recommendations:

Warp Red mixture should be prepared just prior to use. Apply the solution within 20 minutes of preparation.

1. Add 1 drop of Warp Red Chromogen to 2.5ml of Warp Red Buffer. Mix well.
2. Rinse tissue with TBS Wash Buffer.
3. Apply the Warp Red mixture to the tissue section. Incubate 5 to 7 minutes.
4. Rinse tissue with deionized water (D.I.).
5. Counterstain in hematoxylin. Rinse in D.I. water
6. Blue nuclei in TBS Wash Buffer for 1 minute. Wash in tap water.
7. Dehydrate rapidly in 3 changes of 100% alcohol and clear in 2 changes of xylene.
8. Mount and coverslip with permanent mounting medium.

Technical Note:

1. Warp Red Buffer may exhibit slight cloudiness; mix thoroughly before use.
2. Warp Red is highly fluorescent and will not fade. Use with a Texas Red filter.
3. Warp Red can be used with DAB for double stain procedures.
4. For increased staining intensity, the Warp Red application can be extended to 10 minutes.
5. Hydrogen peroxide block does not inhibit Warp Red staining and improves staining contrast.
6. Acetone can be used to reduce Warp Red overstaining.
7. Prolonged use of absolute alcohol or xylenes after Warp Red staining may cause fading.
8. If fading is observed, Biocare recommends to air dry slides after hematoxylin and bluing. Use Biocare's Desert Chamber drying oven at 60°C for 15-30 minutes. After drying, place slides in analytical grade xylene and coverslip.
9. When using an alkaline phosphatase system, Tris buffer (pH 7.6) should be used as a rinsing buffer. PBS should never be used! Phosphates act as a competitive inhibitor to alkaline phosphatase enzymes. For optimum performance, use Immunocare TBS Wash Buffer with AP activator or TBS Wash Buffer 20X.
10. To clean the mixing vial and/or dropper bottle, rinse with 70% alcohol and then wash in several changes of 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:

1. Warp Red Chromogen is mildly corrosive and may cause skin or eye irritation. Avoid contact with skin and eyes. If contact occurs, flush affected area with copious amounts of water. Seek medical attention if necessary.
2. Warp Red Buffer is not classified as hazardous. The preservative used in this reagent is Proclin 950 and the concentration is less than 0.25%. Overexposure to Proclin 950 or chromogen can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 950 in this product does not meet the OSHA criteria for a hazardous substance. Proclin™ is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates. Wear disposable gloves when handling reagents.
3. 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. (1)
4. Microbial contamination of reagents may result in an increase in nonspecific staining.
5. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
6. The SDS is available upon request and is located at <http://biocare.net/>.
7. Do not use reagent after expiration date printed on the vial.
8. Consult OSHA, federal, state or local regulations for disposal of any toxic substances.

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References:

1. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory workers from occupationally Acquired Infections; Approved guideline-Third Edition CLSI document M29-A3 Wayne, PA 2005.

Technical Support:

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