



## Ferangi Blue™ Chromogen Kit 2

Chromogen Kit

Control Number: 902-813A-081611

ISO  
9001&13485  
CERTIFIED

**Catalog Number:** BRR813AH,AS

**Description:** 25 ml, 100 ml

**Intended Use:**

For Research Use Only. Not for use in diagnostic procedures

**Summary & Explanation:**

The Ferangi Blue Chromogen Kit 2 is provided as a stable, two-component system, consisting of Ferangi Blue Chromogen and Ferangi Blue Buffer. When in the presence of alkaline phosphatase (AP) enzyme, Ferangi Blue Chromogen Kit 2 produces a permanent, bright royal blue precipitate.

Typically, Ferangi Blue achieves robust staining intensity in 5-7 minutes. If more intense staining is desired, Ferangi Blue can be extended to 10 minutes, offering users increased flexibility and sensitivity. Ferangi Blue is particularly well-suited for automated multiplex staining applications.

Ferangi Blue is partially soluble in xylenes. Slides should be air dried and coverslipped in a xylene-substitute permanent mounting medium, such as Biocare's EcoMount (EM897).

**Known Applications:**

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**

25 ml size  
Ferangi Blue™ Chromogen (BRR813BE) 0.7 ml  
Ferangi Blue™ Buffer (BRR813CH) 25 ml  
Dropper Bottle (DB813)  
Mixing Vial (VL103)

100 ml size  
Ferangi Blue™ Chromogen (BRR813B-1.6) 1.6 ml  
Ferangi Blue™ Buffer (BRR813CL) 100 ml  
Dropper Bottle (DB813)  
Mixing Vial (VL103)

**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.

**Protocol Recommendations:**

Ferangi Blue working solution should be prepared just prior to use. The working solution is stable for 20-30 minutes.

1. Add 1 drop of Ferangi Blue Chromogen (BRR813B) to 2.5ml of Ferangi Blue Buffer (BRR813) and mix well. Note: To clean the mixing vial, rinse with 70% alcohol and then wash in several changes of deionized water.
2. Rinse tissue with TBS Wash Buffer.
3. Apply the Ferangi Blue mixture to the tissue section and incubate for 5 to 7 minutes.
4. Rinse tissue with deionized water (D.I.).
5. Counterstain lightly with hematoxylin without bluing, or with Weigert's hematoxylin. Rinse in D.I. water.
6. Air dry slides or dry in a 60°C oven for 10 min.
7. Mount and coverslip with a xylene-substitute permanent mounting medium, such as Biocare's EcoMount (EM897).

**Protocol Notes:**

1. Ferangi Blue can be used with Warp Red or DAB for double stain procedures.
2. For increased staining intensity, the Ferangi Blue application can be extended to 10 minutes.
3. Counterstaining lightly with hematoxylin, or with Weigert's hematoxylin is recommended for optimal contrast with Ferangi Blue.
4. Ferangi Blue is partially soluble in xylene. Avoid xylene and xylene-based coverslipping mounting media. Avoid prolonged dehydration steps. Mount in a xylene-substitute permanent mounting medium, such as Biocare's EcoMount (EM897).
5. Hydrogen peroxide block does not inhibit Ferangi Blue staining and in some cases, improves staining contrast.
6. 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.
7. In certain cases with intense staining, crystals may be observed after coverslipping. To prevent crystal formation, slides can be washed in 70% alcohol for 1-2 minutes, after counter-staining.

**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 to CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2). CLSI Wayne, PA, USA (www.clsi.org). 2011

**Precautions:**

Ferangi Blue Chromogen is dissolved in methanol 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.

Ferangi Blue 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. 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 and is located at <http://biocare.net/support/msds/>.

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CERTIFIED**Precautions Cont'd**

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.

**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.

