

intelliPATH™ Ferangi Blue™ Chromogen Kit

Chromogen Kit

Control Number: 901-IPK5027-082817

Catalog Number: IPK 5027 G20
Description: 20ml, kit

Intended Use:

For In Vitro Diagnostic Use

Summary & Explanation:

When in the presence of alkaline phosphatase (AP) enzyme, intelliPATH Ferangi Blue produces a permanent, bright royal blue precipitate. intelliPATH Ferangi Blue is specially formulated for use on Biocare's intelliPATH automated stainer.

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

intelliPATH 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:

- intelliPATH™ Ferangi Blue™ Chromogen (IPC5025Q) 1.5ml
- intelliPATH™ Ferangi Blue™ Buffer (IPBF5026G20) 20ml
- intelliPrep Solution (IPA5018G20) 20ml
- intelliPATH™ Ferangi Blue™ Chromogen Vial (IPC5025VL)
- intelliPATH™ Ferangi Blue™ Mixing Vial (IP5027MV)

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*
- 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.
Stability On-Board: Buffer used for on-board mixing is stable for 1 month.

Protocol Recommendations:

intelliPATH Ferangi Blue Chromogen must be kept in the cold spot while in use on the instrument. intelliPATH Ferangi Blue working solution is prepared on the instrument, immediately prior to use.

1. On-line Mix: 100µl of chromogen with 2000µl of buffer. If chromogen is mixed off-line use the same ratio, and the software will prompt for the reagent to be loaded. 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.

Protocol Recommendations cont'd:

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 minutes.
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 and 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.
8. intelliPrep Solution is necessary for maintaining the cleanliness of the intelliPATH probe when using alkaline phosphatase detection. intelliPrep Solution should be included in the list of required reagents on the intelliPATH.

Quality Statement:

Biocare protocols have been standardized using in-house antibodies, detection and accessory reagents for use on the intelliPATH automated stainer. Recommended staining protocols are specified in the datasheet of the antibody of interest. Preoptimized intelliPATH protocols with preset parameters can be displayed, printed and edited according to the procedure in the operator's manual. Refer to the operator's manual for additional instruction to navigate intelliPATH software and stainer. Use TBS for washing steps unless otherwise specified.

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:

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.

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Precautions Cont'd:

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.

Consult OSHA, federal, state or local regulations for disposal of any toxic substances.

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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.