

Ferangi Blue™ Chromogen Kit 2

Chromogen Kit
902-813A-113022

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Available Product Formats	
Catalog Number	Volume
BRR813AH	25 mL
BRR813AS	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.

Known Applications:

Immunohistochemistry (Formalin-fixed paraffin-embedded tissues)

Materials and Methods:

Reagents Provided:

Kit Catalog No.	Component Catalog No.	Component Description	Quantity x Volume
BRR813AH	BRR813BE	Ferangi Blue™ Chromogen	1 x 0.7 mL
	BRR813CH	Ferangi Blue™ Buffer	1 x 25 mL
	DB813	Dropper Bottle	1 each
	VL103	Mixing Vial	1 each
BRR813AS	BRR813B-1.6	Ferangi Blue™ Chromogen	1 x 1.6 mL
	BRR813CL	Ferangi Blue™ Buffer	1 x 100 mL
	DB813	Dropper Bottle	1 each
	VL103	Mixing Vial	1 each

* Refer to the Biocare Medical website located at <http://biocare.net> for information regarding catalog numbers and ordering.

Supplied As:

Ferangi Blue™ Chromogen

Alcohol solution. See Safety Data Sheet for additional details.

Ferangi Blue™ Buffer

Buffered solution, pH 8.50 – 8.70, less than 0.1% ProClin 950 preservative. See Safety Data Sheet for additional details.

Reconstitution, Dilution and Mixing:

The Ferangi Blue™ Chromogen Kit is optimized for use with Biocare antibodies and ancillary reagents and must be diluted just prior to use. Add 1 drop of Ferangi Blue Chromogen to 2.5mL of Ferangi Blue Buffer and mix well.

Storage and Stability:

Store at 2°C to 8°C. The product is stable to the expiration date printed on the vial label when stored under these conditions. Do not use after expiration date. Storage under any condition other than those specified must be verified. Diluted reagents should be used promptly as instructed. Ferangi Blue working solution should be prepared just prior to use.

Staining Protocol Recommendations:

The below are programming and protocol recommendations to assist the user when staining manually and/or using one of Biocare's Automated Staining Platforms for research applications. The user is responsible for further optimizations of the protocol.

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 (BRR813C) 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 minutes.
7. Mount and coverslip with a xylene-substitute permanent mounting medium, such as Biocare's EcoMount (EM897).

Technical 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.

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. Kit reagents contain less than 0.05% ProClin 300 and/or less than 1% ProClin 950. Wear gloves and protective clothing and take reasonable precautions when handling as ProClin is classified as an irritant and may cause skin contact sensitization. Avoid contact with eyes, skin, and mucous membranes.
2. Handle materials of human or animal origin as potentially biohazardous and dispose such materials with proper precautions. In the event of exposure, follow the health directives of the responsible authorities where used.^{1,2}
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 into contact with sensitive areas, wash with copious amounts of water.³
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. Do not use reagent after the expiration date printed on the vial.



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Precautions Cont'd:

- The reagent is optimized for use with Biocare antibodies and ancillary reagents. Refer to the primary antibody and other ancillary reagent instructions for use for recommended protocols and conditions for use.
- Follow local and/or state authority requirements for method of disposal.
- The SDS is available upon request and is located at <http://biocare.net>.
- Report any serious incidents related to this device by contacting the local Biocare representative and the applicable competent authority of the Member State or country where the user is located.

This Ferangi Blue Chromogen Kit 2 contains components classified as indicated in the table below in accordance with the Regulation (EC) No. 1272/2008.

Hazard	Code	Hazard Statement
	H225	Highly flammable liquid and vapor.
	H301+ H311+ H331	Toxic if swallowed, in contact with skin or if inhaled.
	H370	Causes damage to organs (kidneys, optical nerves) (oral).
	H317	May cause an allergic skin reaction.

Technical Support:

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

References:

- Occupational Safety and Health Standards: Occupational exposure to hazardous chemicals in laboratories. (29 CFR Part 1910.1450). Fed. Register.
- Directive 2000/54/EC of the European Parliament and Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.
- Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.