

Val Fast Red Chromogen Kit

Fast Red Chromogen Kit
901-VLT8019K-081519



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Catalog Number: VLT 8019 K

Description: Kit

Intended Use:

For In Vitro Diagnostic Use

Val Fast Red Chromogen Kit consists of two solutions for the staining of formalin-fixed, paraffin-embedded (FFPE) tissues, as part of an immunohistochemistry (IHC) procedure using an alkaline phosphatase (AP) detection system on the VALENT® Automated Slide Staining Platform. The clinical interpretation of any staining or its absence should be complemented by morphological studies and proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Summary & Explanation:

Fast Red is a widely used chromogen for immunohistochemical staining. Val Fast Red is an advanced formulation of Fast Red that accelerates and intensifies staining. When in the presence of alkaline phosphatase (AP) enzyme, Val Fast Red produces a bright fuchsin-red precipitate that is insoluble in organic solvents and can be coverslipped with a permanent mounting media. Val Fast Red may also be used in multiplex detection systems, such as Val Plex 2, for Multiplex IHC applications. This product has been designed to be used on the VALENT Automated Slide Staining Platform. Mixing vials are required for each unique run of the VALENT.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Reagents Provided:

Val Fast Red Chromogen (VLT8020G3) 1 x 3 mL

Val Fast Red Buffer (VLT8021G20) 9 x 20 mL

Reconstitution, Dilution and Mixing:

Val Fast Red is provided as a two-component mix. Val Red working solutions are prepared on the stainer, immediately prior to use at 1:60 ratio (Val Fast Red mix) or 1:25 ratio (Val Dark Red mix) of Val Fast Red Chromogen and Val Fast Red Buffer. The Val Fast Red and Val Dark Red working solutions are unstable and should be used immediately after mixing.

Materials and Reagents Required But Not Provided:

Reagents and materials, such as primary antibodies, detection kits and ancillary reagents are not provided.

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

Refer to the VALENT Automated Slide Staining Platform User Manual for a complete list of VALENT specific materials and reagents required.

Storage and Stability:

Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date.

Instructions for Use:

1. After application of AP detection, rinse tissue section in Val Wash Buffer.

Instructions for Use Cont'd:

2. On-line Val Fast Red mix: Mix a 1:60 ratio of Val Fast Red Chromogen and Val Fast Red Buffer. If chromogen is mixed off-line, use the same ratio. Each slide requires 300 µL and the total volume made must include a 50 µL dead volume. The Val Fast Red working solution is unstable and should be used immediately after mixing.

3. On-line Val Dark Red mix: Mix a 1:25 ratio of Val Fast Red Chromogen and Val Fast Red Buffer. Val Dark Red mix provides stronger staining intensity (see Technical Note 5.) The Val Dark Red working solution is unstable and should be used immediately after mixing.

4. Apply the Val Fast Red or Val Dark Red mixture to tissue section. Incubate for 15 minutes.

5. Rinse tissue in Val Aqua Rinse.

The Val Fast Red Chromogen kit is provided in vials ready for use on the VALENT Automated Slide Staining Platform. Uncap the vials and place in the VALENT reagent tray. The VALENT Automated Slide Staining Platform will mix and apply reagent as required in the selected protocol.

Refer to the appropriate antibody data sheet for the recommended staining protocol. Refer to the VALENT Automated Slide Staining Platform User Manual for detailed instructions on instrument operation and additional protocol options.

Technical Notes:

1. Use Val Wash Buffer. PBS-based wash buffers will inhibit alkaline phosphatase staining.

2. Val Fast Red Buffer may exhibit slight cloudiness; mix thoroughly before use.

3. ValPrep Solution (VLT8027) is necessary for maintaining the cleanliness of the probe when using alkaline phosphatase detection. ValPrep Solution should be included in the list of required reagents on the Valent.

4. For increased staining intensity, the Val Fast Red application can be extended to 20 minutes.

5. Val Dark Red Mix may produce precipitation on the glass slide due to the higher concentration of the chromogen.

Limitations:

These reagents have been optimized for use with VALENT antibodies and ancillary reagents. The protocols for a specific application can vary. These include, but are not limited to fixation, heat-retrieval method, incubation times, and tissue section thickness. Third party primary antibodies may be used on the VALENT Automated Slide Staining Platform; however, appropriate antibody concentration may depend upon multiple factors and must be empirically determined by the user. Ultimately, it is the responsibility of the investigator to determine optimal conditions.

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:

1. Refer to reagent Safety Data Sheet for precautions.

2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and

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Precautions Cont'd:

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)

3. Microbial contamination of reagents may result in an increase in nonspecific staining.

4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.

5. Do not use reagent after the expiration date printed on the vial.

6. The SDS is available upon request and is located at <http://biocare.net>.



CORROSIVE



IRRITANT

Troubleshooting:

Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

References:

1. 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.