Val Zyme Pronase Kit

Post-Digestive Enzyme
901-VLT8095K-101819

Catalog Number: **VLT 8095K**

Description: Kit

Intended Use:
For In Vitro Diagnostic Use
Val Zyme Pronase Kit is a concentrated solution of pronase enzyme and accompanying buffer intended for use as a post-retrieval step on formalin-fixed, paraffin-embedded (FFPE) tissues in immunohistochemistry (IHC) procedures 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:
Pronase (Streptomyces griseus) is commonly used as a pretreatment step to enhance immunohistochemical staining in formalin-fixed paraffin-embedded tissues. Certain antibodies may require this type of additional enzyme digestion post-retrieval. Val Zyme Pronase Kit is provided as a two-component system and 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 Zyme Pronase Buffer (VLT8096G20) 1 x 20 mL
Val Zyme Pronase (concentrate) (VLT8097G3) 1 x 3 mL

Reconstitution, Dilution and Mixing:
Val Zyme Pronase is provided as a two-component mix. Val Zyme Pronase working solutions are prepared on the stainer, prior to use at a 1:25 ratio (Val Zyme Pronase mix) or 1:50 (Val Zyme Pronase Lite mix) of Val Zyme Pronase (concentrate) and Val Zyme Pronase Buffer. The Val Zyme Pronase and Val Zyme Pronase Lite working solutions are stable for 5 days. Diluted reagents should be used promptly; any remaining reagent should be stored at 2-8°C.

Materials and Reagents Required But Not Provided:
Reagents and materials, such as primary antibodies, detection kits, chromogens 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 antigen retrieval of Val AR-Hi pH or Val AR-Lo pH, rinse tissue section in Val Wash Buffer.
2. On-line Val Zyme Pronase mix: Mix a 1:25 ratio of Val Zyme Pronase (concentrate) and Val Zyme Pronase Buffer. If the enzyme 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 Zyme Pronase working solution is stable and should be used within 5 days after mixing.

Instructions for Use Cont'd:
3. On-line Val Zyme Pronase Lite mix: Mix a 1:50 ratio of Val Zyme Pronase (concentrate) and Val Zyme Pronase Buffer. Val Zyme Pronase Lite provides a milder digestion for use on softer tissues (such as breast).
4. Apply the Val Zyme Pronase or Val Zyme Pronase Lite mixture to tissue section. Incubate for 10 minutes.
5. Rinse tissue in Val Wash Buffer.

The Val Zyme Pronase 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. Color-coded buffer (rose) for easy identification.
2. Buffer incorporates ASSURE™ Technology, a color-coded pH indicator. The end user can visually inspect the solution and see that the mixture or buffer is at the proper pH. If the mixed solution is purple, the pH is too high for optimal digestion. If the buffer or mixed solution turns orange or yellow, the pH is too low for optimal digestion.
3. If digestion artifacts are seen, consider further dilution of the Val Zyme Pronase (concentrate) in Val Zyme Pronase Buffer.

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 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.

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HEALTH HAZARD **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.

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