

Romulin AEC Chromogen Kit

Permanent-Mounting for HRP Systems

Control Number: 901-RAEC810-082117

Catalog Number: RAEC810 L, M

Description: 100, 500 ml

Intended Use:

For In Vitro Diagnostic Use

Summary & Explanation:

AEC is a widely used chromogen for immunohistochemical procedures. In the past, AEC chromogens required a water-soluble mounting media because it was soluble in organic solvents. Romulin AEC from Biocare produces a reddish-orange stain. However, it is not soluble in alcohol or xylene and can be coverslipped just like DAB. It does not fade with permanent mounting media such as Permount™. When in the presence of a peroxidase enzyme, Romulin AEC produces a reddish-orange stain. This product comes in a 4-component system consisting of ready-to-use buffer, stabilizer, chromogen and hydrogen peroxide.

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As:

100 ml Kit

1. Romulin AEC Stabilizer A (RAEC810ST) 0.8ml
2. Romulin AEC Chromogen B (RAEC810CH) 0.8ml
3. Romulin AEC Hydrogen Peroxide C (RAEC810HP) 1.0ml
4. Romulin AEC Buffer (RAEC810BF) 100ml
5. Mixing vial (MV810)
6. Dropper Bottle (DB810)

500 ml Kit

1. Romulin AEC Stabilizer A (RAEC810ST5) 5ml
2. Romulin AEC Chromogen B (RAEC810CH5) 5ml
3. Romulin AEC Hydrogen Peroxide C (RAEC810HP5) 5ml
4. Romulin AEC Buffer (RAEC810BF5) 500ml
5. Mixing vial (MV810)
6. Dropper Bottle (DB810)

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 Slide Brite*)
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*
Chromogens*
Cat Hematoxylin*
Tacha's Bluing Reagent*
Cover care mounting medium*

* Biocare Medical Products: Refer to a Biocare Medical catalog for further information regarding catalog number 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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

Protocol Recommendations:

1. Add 1 drop (32µl) of Solution A (Stabilizer) to 5.0 ml of ready-to-use buffer. Mix well.
2. Add 1 drop (32µl) of Solution B (Chromogen) to the mixture. Mix well.
3. Add 1 drop (32µl) of Solution C (Hydrogen Peroxide) to the mixture. Mix well. Romulin AEC is stable for 8 hours at room temperature or 4-5 days at 2-8°C.
4. Rinse tissue with TBS Wash Buffer.
5. Apply the Romulin AEC mixture to the tissue section. Incubate 5 to 7 minutes.
6. Rinse tissue with deionized water (D.I.).
7. Counterstain in hematoxylin. Rinse in D.I. water
8. Dehydrate rapidly in 3 changes of 100% alcohol and clear in 2 changes of xylene.
9. Mount and coverslip with permanent mounting medium.

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:

This product 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 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. 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.

Warnings:

1. Do not expose AEC components to strong light or direct sunlight.
2. Wear appropriate personal protective equipment and avoid contact with skin and eyes.
3. The MSDS is available upon request.

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.