

Tris/HCl Buffer pH 7.6

(4 X Concentrated)

Reference: AP12009



1 of 1

INTENDED USE AND PRESENTATION:

For research use only.

AP12009, 250 mL (4fold concentrated)

SUMMARY, EXPLANATION AND LIMITATIONS:

Washing away the applied reagents after each incubation step is critical to receive optimally stained samples in immunohistochemical staining procedures. Genova Scientific's TRIS/HCl Buffer is especially designed for effective washing and therefore ensures brilliant staining results.

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. It requires a highly trained histotechnologist. Tissue processing and handling prior to immunostaining, for example variations in fixation and embedding or the inherent nature of the tissue can cause inconsistent results (Nadji and Morales, 1983). Inadequate counterstaining and mounting can influence the interpretation of the results.

APPLICATIONS:

TRIS/HCl Buffer Concentrate is used as a diluent and for washing steps in immunohistochemical staining procedures. It can also be used for antigen retrieval and reduces background staining. It is suitable for in situ hybridisation, immunohistochemistry, immunoblotting, and ELISA.

The interpretation of the stain results is the full responsibility of the user. Any experimental result must be confirmed by a medically established diagnostic product or procedure.

REAGENT PROVIDED:

250 ml **TRIS/HCl Buffer Concentrate** (4fold concentrated, adequate for 1 litre of ready-to-use buffer).

METHOD AND PROCEDURE:

Principle of the method: The IHC as technique to demonstrate the presence of an antigen in tissues and cells, is a sequential procedure of several steps: the application of antibody specific for the antigen of interest (primary antibody), the detection and visualization of bound antibody by one of a variety of enzyme chromogenic systems and washing steps. The chromogenic enzyme activation results in a visible product at the site where the antigen is located. The results can be evaluated in a light microscope. TRIS/HCl Buffer is a concentrated TRIS solution containing HCl.

Specimen: Formalin-fixed paraffin-embedded tissue section.

Reagent preparation: Bring TRIS/HCl Buffer Concentrate to room temperature prior to dilution.

Preparation of the TRIS/HCl Buffer working strength solution:

1- Transfer the complete content of TRIS/HCl Buffer Concentrate into a 1 litre volumetric flask. If salt precipitates remain in the bottle, this must be dissolved and completely transferred to the volumetric flask too.

2- Fill up with deionised or distilled water to exactly 1000 ml. Mix thoroughly.

3- The pH-value should be at 7.6.

See our web site at www.gennova-europe.com for detailed protocols ancillary reagents and support products.

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for IHC procedures are not provided with this product. This includes primary antibodies, adhesive slides and cover slips, positive and negative control tissues, Xylene or adequate substitute, ethanol, distilled H₂O, heat pretreatment equipment (pressure cooker, steamer, microwave), pipettes, Coplin jars, glass jars, moist chamber, histological baths, negative control reagents, counter-staining solution, mounting materials, and microscope.

Antibodies, buffered solutions for antigen retrieval, enzyme treatments, others highly sensitive detection systems, and other auxiliary reagents are available from Genova Scientific.

STORAGE AND STABILITY:

The solution should be stored at 2-8°C. Do not freeze it and don't expose it to light. Do not use after the expiration date. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user.

Genova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided. Under no circumstances is Genova Scientific obliged to cover damages caused by use of this reagent.

TROUBLESHOOTING:

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, contact Genova Scientific's technical support or your local distributor. Also refer to the instructions of the detection systems for guidance on general troubleshooting.

PRECAUTIONS:

TRIS/HCl Buffer Concentrate is not considered hazardous material in terms of directive 67/548/EWG. No material safety data sheet (MSDS) and no marking according to the EG-directive are necessary.

PERFORMANCE CHARACTERISTICS:

Genova Scientific has conducted studies to evaluate the performance of the kit reagents. The product has been found to be suitable for the intended use.

BIBLIOGRAPHY:

Shi Elias JM "Immunohistopathology – A practical Approach to Diagnosis" ASCP Press 2003

Omata M et al. Am J Clin Pathol 73(5): 626-32, 1980

Nadji M, Morales AR. Immunoperoxidase, part 1: the techniques and its pitfall. Lab Med 1983; 14:767-770.

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Catalog number



Batch code



Research use only



Temperature limitation



Expiration date



Manufacturer



See instruction for use



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