



Blocking Solution

REF / Cat. No.: ZUC007-100 100 ml
ZUC007-500 500 ml

Instructions for use

Intended use

Blocking Solution is developed to eliminate unspecific binding of primary and secondary antibodies to tissue sections. It is primarily intended to be used in immunohistochemistry on formalin-fixed paraffin-embedded samples. Blocking solution is intended for in vitro diagnostic use.

Summary end explanation

Unspecific binding of primary and secondary antibodies to tissue sections in immunohistochemical staining procedures can result in background staining. This effect can be eliminated when tissue sections are incubated with Blocking Solution prior to incubation with the primary antibody. The protein in Blocking Solution abolishes unspecific binding.

Blocking Solution is a universal blocking reagent. Unlike other frequently used blocking solutions (e. g. serum blocks) the reagent can be used regardless of the origin species of the secondary antibody. Interferences with secondary antibodies or other components of detection systems are not observed.

In contrast to other blocking reagents this Blocking Solution should not be incubated longer than 10 minutes and should be rinsed away with wash buffer. Otherwise the signal intensity of the immunohistochemical staining reaction could be decreased.

Principle of the method

Blocking Solution is applied on tissue sections to reduce background staining due to unspecific binding of primary and secondary antibodies in immunohistochemistry. The step is carried out prior to incubation with the primary antibody.

Reagent provided

REF / Cat. No. ZUC007-100
100 ml Blocking Solution (ready-to-use)
REF / Cat. No. ZUC007-500
500 ml Blocking Solution (ready-to-use)

Storage and handling

The solution should be stored at 2-8°C without further dilution. Please store the reagent in a dark place and do not freeze it. Under these conditions the solution is stable up to the expiry date indicated on the label. Do not use product after the expiry date.

A positive and a negative control have to be carried out in parallel to the test material. If you observe unusual staining or other deviations from the expected results which could possibly be caused by this reagent, please contact Zytomed Systems' technical support or your local distributor.

Precautions

Use by qualified personnel only. Wear protective clothing to avoid contact of reagent or specimen with eye, skin or mucous membrane. In case of the reagent or specimen coming into contact with a sensitive area, wash the area with large amounts of water. Microbial contamination of the reagent must be avoided, since otherwise non-specific staining may occur. ProClin 950 is used for stabilisation. A Material safety data sheet (MSDS) is available upon request.

Staining procedure

1. Apply Blocking Solution for 5 minutes at room temperature. The section should be covered completely.
2. Rinse with wash buffer.
3. Proceed with next steps for immunohistochemical staining as usual starting with the primary antibody.

Quality control

We recommend carrying out a positive and a negative control with every staining run. The positive control permits the validation of appropriate processing of the sample. If the negative control has a positive result, this points to unspecific staining. Please refer to the instructions of the detection system for guidance on general quality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, contact Zytomed Systems' technical support or your local distributor. Also refer to the instructions of the detection systems containing Blocking Solution for guidance on general troubleshooting (e. g. the kits HRP008DAB, HRP008AEC, POLHRP008, AP008-FastRed or POLAP008).

Expected results

During the reaction of the substrate with horse radish peroxidase or alkaline phosphatase in the presence of a chromogen, a coloured precipitate is formed at the location of the bound primary antibody. This reaction only takes place if the target antigen is existent in the tissue. The chromogen used determines the colour of the precipitate. The analysis is carried out using a light microscope.

Limitations of the procedure

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).

Overexposure with the protein blocking solution ("Blocking Solution") can result in decreasing signal intensity. Therefore, we recommend washing away the Blocking Solution instead of just draining it away as in other procedures. Inadequate counterstaining and mounting can influence the interpretation of the results.

Zytomed Systems guarantees that the product will meet all requirements described from its shipping date until its expiry date, as long as the product is correctly stored and utilized. No additional guarantees can be given. Under no circumstances shall Zytomed System be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Zytomed Systems has conducted studies to evaluate the performance of the reagent. The product has been found to be suitable for the intended use.

Bibliography













Elias JM "Immunohistopathology – A practical Approach to Diagnosis" ASCP Press 2003
Nadji M and Morales AR Ann N.Y. Acad Sci 420:134-9, 1983

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Explanations of the symbols on the product label:

	Bestellnummer Catalog Number Reference du catalogue		Verwendbar bis Use By Utiliser jusque		Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température		Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
	In vitro Diagnostikum In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro		Achtung/Gefahr Warning/Danger Attention/Danger		Hersteller / Manufacturer / Fabricant Zytomed Systems GmbH Anhalterstraße 16 14163 Berlin, Germany Tel: (+49) 30-804 984 990 www.zytomed-systems.de
	Achtung/Gefahr Warning/Danger Attention/Danger		Achtung Warning Attention		Gefahr Danger Danger