

Permanent HRP Green Kit

REF / Cat. No.: ZUC070-100 100 ml (1000 tests)

Instructions for use

Intended use

Permanent HRP Green Kit is intended for immunohistochemical and *in situ*-hybridisation staining procedures with horse radish peroxidase (HRP). It results in the formation of a green precipitate at the location of the target antigen or target nucleic acid. The precipitate is insoluble in organic solvents and can be observed by light microscopy.

The HRP Green precipitate shows a very good contrast to red chromogenic substrates used with alkaline phosphatase detection systems and is therefore especially recommended for double stains.

Permanent HRP Green Kit is intended for research use only.

Reagents provided

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100 ml HRP Green Substrate Buffer

3 ml HRP Green Chromogen

1 Dilution Vial

Storage and Handling

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

The working solution should be prepared freshly at the day of use. It is stable for at least 4 hours. Excess working solution should be disposed.

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 the kit reagents please contact Zytomed Systems' technical support or your local distributor.

Precautions

Use by qualified personnel only. Wear protective clothing to avoid contact of reagents or specimen with eye, skin or mucous membrane. In case of a reagent or specimen coming into contact with a sensitive area, wash the area with large amounts of water. Microbial contamination of the reagents must be avoided, since otherwise non-specific staining may occur.

Material safety data sheets (MSDS) are available upon request.

Reagent preparation (preparation of the working solution)

- 1) Pipette 1 ml HRP Green Substrate Buffer into the provided dilution vial.
- 2) Add 1 drop (30 µl) of HRP Green Chromogen. Mix thoroughly.
- 3) The resulting working solution is stable for at least 4 hours.

If you want to prepare other quantities of the working solution, please refer to the examples in this table:

HRP Green Substrate Buffer	HRP Green Chromogen	HRP Green Substrate Buffer	HRP Green Chromogen
0.5 ml	15 µl	5 ml	150 µl
1 ml	30 µl	10 ml	300 µl
2 ml	60 µl	15 ml	450 µl
3 ml	90 µl	20 ml	600 µl
4 ml	120 µl	25 ml	750 µl

Staining procedure

- 1) Rinse the slide with wash buffer after the previous incubation step.
- 2) Apply the Permanent HRP Green working solution onto the slide. Incubate for 2-10 minutes.
- 3) Rinse with distilled H₂O.
- 4) Counterstain with haematoxylin for about 30 seconds up to 5 minutes (depending on the desired staining intensity).
- 5) Rinse with distilled H₂O.
- 6) Blueing in tap water for 5 minutes.
- 7) Dehydrate through a graded series of ethanol and clear in xylene. Do not exceed incubation times of 30 sec per dehydration step. Use only high purity xylene. Mount with a permanent mounting medium.

Note: The colour intensity can be intensified by increasing the chromogen concentration (up to 3 drops or 90 µl chromogen) in the working solution.

Lithium carbonate may have a negative effect on the staining result. We recommend to only blueing in tap water.

Occasionally precipitates may appear in the HRP Green Chromogen solution. This doesn't affect the staining result.

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 for guidance on general troubleshooting.

Expected results

During the reaction of the substrate with horse radish peroxidase in presence of the Permanent HRP Green chromogen, a green precipitate is formed at the location of the target antigen or nucleic acid. The precipitate is insoluble in organic solvents and can be observed by light microscopy.

Limitations of the procedure

Too long incubation steps at the final dehydration serious can diminish the staining intensity. Also low grade xylene and some forms of recycled alcohol can have a negative effect on the staining result.

In double stain procedures we recommend to use Permanent HRP Green as the last chromogen.

Immunohistochemistry is a complex method in which histological as well as immunological detection methods are combined. 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).

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 System has conducted studies to evaluate the performance of the kit reagents in combination with standard detection systems. 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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Explanation 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	