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Permanent HRP Green Kit

REF / Cat. No.: **MON-APP210** 1000 tests, 100 ml

Instructions for use

Intenden 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 aqueous and 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

REF / Cat. No. MON-APP210

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 the Monosan technical support or your local distributor.

Explanation of the symbols on the product label:

	Bestellnummer Catalog Number Reference du catalogue		Chargenbezeichnung Batch Code Code du lot		Reizend Irritant Irritant
	Gesundheitsschädlich Harmful Nocif		Giftig Toxic Toxique	 Hersteller / Manufacturer / Fabricant Monosan® Frontstraat 2c 5405 PB Uden The Netherlands Tel: (+31) 413 251115 Fax: (+31) 413 266605 info@monosan.com www.monosan.com	
	Verwendbar bis Use By Utiliser jusque				
	Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation		Lagerungstemperatur Temperature Limitation Limites de température		

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
0,5 ml	15 µL
1 ml	30 µL
2 ml	60 µL
3 ml	90 µL
4 ml	120 µL










HRP Green	Substrate Buffer
5 ml	150 µL
10 ml	300 µL
15 ml	600 µL
20 ml	600 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 at least 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.

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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 the Monosan 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 aqueous and 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). Monosan 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 Monosan 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

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

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