

# Produktinformation



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# Monosan® Permanent AEC Kit

REF / Cat. No.: MON-APP173 200 ml (2000 tests)

### Instructions for use

#### Intended use

Monosan<sup>®</sup> Permanent AEC Kit is intended for immunohistochemical and *in situ*-hybridisation staining procedures with horse radish peroxidase (HRP). AEC (3-Amino-9-ethylcarbazol) leads to the formation of a red-brown precipitate at the location of the target antigen or target nucleic acid. The precipitate is insoluble in aqueous mounting media and can be observed by light microscopy.

The Monosan® Permanent AEC Kit is intended for research use only.

#### Reagents provided

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5.5 ml Reagent 1 3 ml Reagent 2

3 ml Reagent 3 (Chromogen)

4.5 ml Reagent 4 (H<sub>2</sub>O<sub>2</sub>)
1 Dilution Vial

#### Storage and Handling

The solutions should be stored at 2-8 ℃ 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. 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 Monosans' 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 5 ml distilled or deionised water into the provided dilution vial.
- 2) Add 3 drops buffer concentrate (Reagent 1). Mix thoroughly.
- 3) Add 2 drops **Reagent 2**. Mix thoroughly.
- 4) Add 2 drops AEC chromogen (Reagent 3). Mix thoroughly.
- 5) Add 2 drops H<sub>2</sub>O<sub>2</sub> substrate (**Reagent 4**). Mix thoroughly.

This working solution is stable for at least 16 hours if stored at 2-8 °C in a dark place.

#### Staining procedure

- 1) Apply the Monosan<sup>®</sup> Permanent AEC working solution onto the slide. Incubate for 5-15 minutes. (Incubation time can be extended, if desired.)
- 2) Rinse with distilled or deionised H<sub>2</sub>O.
- 3) Counterstain with haematoxylin for about 30 seconds up to 5 minutes (depending on the desired staining intensity).
- 4) Rinse with distilled or deionised H<sub>2</sub>O.
- 5) Blueing in tap water for at least 5 minutes.
- 6) Dehydrate through a graded series of ethanol and clear in xylene. Mount with a permanent mounting medium. Note: It is also possible to mount Monosan® Permanent AEC with aqueous mounting media.

#### **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 Monosans' 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 chromogen AEC, a red-brown 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

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). In some tissues endogenous peroxidase activity may cause non-specific staining. The enzyme activity should be blocked by incubation with hydrogen peroxide solution ( $H_2O_2$  solution, Cat. No. MON-APP146). The step is carried out before incubation with primary antibody but after dewaxing and rehydration. Background staining due to endogenous biotin can be blocked through an avidin-biotin blocking step prior to the primary antibody incubation step. Inadequate counterstaining and mounting can influence the interpretation of the results.

A longer exposure to absolute ethanol can result in decreasing staining intensity. Use of recycled alcohol to dehydrate tissue slides after staining is not recommended.

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.

#### **Bibliography**

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

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

Explanation of the symbols on the product label:

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