



## DAPI/Antifade Solution

REF / Cat. No.: FA-004-008 800 µl

### Instructions for use

#### Intended use

DAPI/Antifade Solution is a ready-to-use solution developed for staining of nuclear chromatin (often termed “nuclear counterstaining”) in fluorescence *in situ* hybridization (FISH) assays. DAPI/Antifade Solution is intended for *in vitro* diagnostic use.

#### Summary and explanations

Fluorescence *in situ* hybridization (FISH) assays require fluorescent staining of nuclear chromatin in order to make cell nuclei visible and to correctly assign fluorescent signals to defined nuclei. DAPI (4', 6-diamidino-2-phenylindole) binds to the minor groove of double-stranded DNA and emits blue light when excited with ultraviolet light. In addition, DAPI/Antifade Solution contains an agent which stabilizes fluorescent signals during fluorescence microscopy. It has been optimized for use in combination with ZytoPure® FISH probes and the ZytoPure® FISH Accessory Kit.

#### Principle of the method

DAPI/Antifade Solution is a ready-to-use solution for nuclear counterstaining in FISH assays. The concentration of DAPI is 300 ng/ml.

#### Reagent provided

REF / Cat. No. FA-004-008  
800 µl DAPI/Antifade Solution (Ready-To-Use)

#### Storage and handling

The solution should be stored at 2-8°C protected from light. 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. Internal (on-slide) and external controls should be carried out in parallel to verify the assay procedure. If you observe deviations from the expected results which could possibly be caused by the 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 and specimen with eye, skin or mucous membranes. In case of reagent or specimen coming into contact with a sensitive area, wash area with large amounts of water. A material safety data sheet (MSDS) is available upon request.

#### Reagent preparation

The solution is ready-to-use.

## Procedure

DAPI/Antifade Solution is intended to be used for nuclear counterstaining in FISH assays. This is the last step of the ZytoPure® FISH Accessory Kit protocol.

1. Apply DAPI/Antifade Solution (use ~15 µl for 22 mm x 22 mm cover slip).
2. Cover slide with cover slip, avoid air bubbles.
3. Incubate protected from light for 15 min at room temperature.
4. Remove excess DAPI/Antifade Solution by gently pressing the slide between filter paper.

## Quality control

We recommend carrying out internal (on-slide) and external controls with every hybridization run to monitor the performance of the reagents used, and for correct interpretation of results.

## Troubleshooting

If you observe unusual results please read these instructions carefully, contact Zytomed Systems' technical support or your local distributor. Also refer to the instructions for use of the ZytoPure® FISH Accessory Kit for guidance on general troubleshooting.

## Limitations of the procedure

- Interpretation of results should only be done by qualified personnel familiar with the method and probe signal patterns under the supervision of a pathologist. Modifications of the protocol may lead to divergent results. They are the responsibility of the user and are to be validated for correct outcome.
- Positive and negative controls should be performed.
- Unsuitable pre-analytic parameters, like prolonged ischemia, over- or underfixation, insufficient dehydration or embedding of tissue specimens can negatively affect the results.
- Tissue specific problems, like strong autofluorescence, can negatively affect the results.

## Performance characteristics

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

## Bibliography








- Wilson WD *et al.* Biochemistry 29, 8452–8461, 1990

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Explanation of the symbols on the product label:

<b>REF</b>	Bestellnummer Catalog Number Reference du catalogue		Verwendbar bis Use By Utiliser jusque		Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
<b>LOT</b>	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température	<b>RUO</b>	Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
<b>IVD</b>	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 Anhaltinerstraße 16 14163 Berlin, Germany Tel: (+49) 30-804 984 990 www.zytomed-systems.de
	Achtung/Gefahr Warning/Danger Attention/Danger		Achtung Warning Attention		