

MetaSystems Probes GmbH  
1. Industriestraße 7  
D-68804 Altlussheim  
Tel.: +49-6205-292760

Sicherheitsdatenblatt auf Anfrage  
für berufsmäßige Verwender  
erhältlich.

Safety data sheet available for  
professional user on request.

Fiche de données de sécurité  
disponible sur demande pour les  
professionnels.

For laboratory use only

+2°C  
+8°C

LOT XXXXX  
YYYY-MM

REF D-0902-500-DA

500µl ( 50)

MetaSystems  
Probes  
DAPI/Antifade



## For Professional Use Only

Further information available at [www.metasystems.de](http://www.metasystems.de)

Product	Order No.	Pack Size
DAPI/Antifade	D-0902-500-DA	500µl

### Materials Provided

500µl of DAPI/Antifade solution (conc.:250ng DAPI/1 ml Antifade solution) (contains glycerol)

### Intended Use

DAPI/Antifade contains 4',6-diamidino-2-phenylindole (DAPI). It is a blue fluorescent dye with an excitation max. at 358nm and an emission max. at 461nm. In fluorescent in situ hybridizations (FISH) it is used for counterstaining of chromosomes and interphase nuclei in cytogenetic preparations, blood and bone marrow smears and tissue sections.

### Safety Instructions

	<b>ATTENTION: Handle with Care!</b> DAPI is a known mutagen and should be handled with care.
	<b>ATTENTION: Good Laboratory Practice!</b> Use in accordance with the principles of good laboratory practice.
	<b>ATTENTION: Waste Disposal!</b> All hazardous materials should be disposed of according to your institution's guidelines for hazardous waste disposal.

### Storage and Handling

DAPI/Antifade should be stored between +2°C and +8°C.

### Customer Support

Please contact MetaSystems Probes GmbH or our authorized distributor in your EU country by telephone or e-mail (contact details, see below). MetaSystems disclaims any proprietary interest in the marks and names of others.



MetaSystems Probes GmbH  
1. Industriestraße 7  
D-68804 Altlussheim  
Germany

Tel.: +49 (0)6205 292760  
Fax: +49 (0)6205 2927629  
email: [info@metasystems-probes.com](mailto:info@metasystems-probes.com)  
URL: [www.metasystems-probes.com](http://www.metasystems-probes.com)

## Procedure

Follow the standard procedure recommended by MetaSystems for fluorescence in situ hybridization.

## Counterstain

### Solutions required:

- DAPI/Antifade

### Procedure:








1. Apply 10  $\mu$ l of the DAPI/Antifade and overlay with a 24 x 32 mm<sup>2</sup> coverslip.
2. Allow the penetration of DAPI/Antifade for 10min.
3. Proceed with microscopy and analysis.
4. Store slides at -20°C.

## Troubleshooting

Problem	Potential Cause(s)	Recommended Solution
Hybridization signals become weak after a while.	<ul style="list-style-type: none"><li>• Immersion oil soaked in-between slide and coverslip.</li></ul>	<ul style="list-style-type: none"><li>• Replace coverslip and DAPI/antifade. Use 24 x 32 mm<sup>2</sup> coverslip even if only a small region is hybridized.</li></ul>
Diffuse signals.	<ul style="list-style-type: none"><li>• Preparation not adequately illuminated.</li><li>• Focus plane cannot be adjusted properly.</li><li>• Antifade layer is too thick for focusing.</li></ul>	<ul style="list-style-type: none"><li>• Check optical pathway of microscope. Adjust the UV light properly. Check the lifetime of the UV lamp.</li><li>• Use enough immersion oil. Do not mix different immersion oils. Use immersion oil suitable for fluorescence.</li><li>• Do not use too much DAPI/antifade. 10 <math>\mu</math>l per slide (24 mm x 32 mm coverslip) are sufficient.</li></ul>

If the recommended measures do not solve the problem, or your problem is not listed, please contact MetaSystems.

## Symbols Used

Symbol	Description
	Manufacturer
	All warnings are marked by warning triangle with exclamation mark. Depending on their character they are supplemented with the words ATTENTION or CAUTION.
	Reference number
	Temperature limitation for storage. Lower and upper limits are indicated.
	No of tests
	Lot number
	Expiry date

Revision: DAPI-Antifade-RevC200506-160609