



Biotinylated (-) **Control** Probe for *in situ* DNA  
Hybridization

0,8 ml, 40 applications

For detection of DNA by *in situ* hybridization

FOR RESEARCH USE ONLY

Product Nr.: **T-1023**

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Biotin labelled (-) **Control** oligonucleotide probe for detection  
of DNA by *in situ* hybridization, ready to use

**Product description**

**Content:** 0,8 ml (40 applications) (-) **Control** *in situ* hybridization (ISH) probe in hybridization buffer. The probe contains a mix of biotinylated oligonucleotides with a GC-Content of 40-70%.

**Product No.:** T-1023, ((-) **Control**-ISH probe)

**Specificity:** The (-) **Control**-ISH probe is to be used for detection of DNA in paraffin-embedded tissue or cells by *in situ* hybridization.

**Storage/Stability:** The (-) **Control**-ISH probe must be stored at temperatures between 2°-8°C in the dark and remains stable until the expiry date stated on the packaging.

**Use:** **This product is designed for research purposes only and is not for use in diagnostic applications.**

**Safety Precautions:** Read the operating instructions prior to use!

Do not use the reagents once the use-by date has expired.

This product contains formamide and kathon. Avoid any direct contact with the reagents. Take appropriate protective measures (use of disposable gloves, protective glasses and lab garments)!

If reagents come into contact with skin, rinse skin immediately with copious quantities of water. The following risk and safety phrases apply to component Oligonucleotide Buffer DNA containing formamide, deionized: R61 May cause harm to the unborn child. S53 Avoid exposure - obtain special instructions before use. S45 In case of accident or if you feel unwell, seek medical

advice immediately (show the label, where possible)!

Material safety data sheet is available on request for professional user!

**Labelling Details:**

*Please note:* ZytoVision uses a special procedure for oligonucleotide labelling. This procedure leads to an increase of the signal to noise ratio compared to other methods (i.e. significantly reduced background). Naturally, ZytoVision labels oligonucleotides with this special procedure as a custom service.

**Principle of the method:**

The presence of certain nucleic acid sequences in cells or tissue can be ascertained with in situ hybridisation using tagged gene probes. The hybridization results in duplex formation of sequences present in the test object and the specific gene probe.

The (-) [Control](#) probe (Biotin) serves as a control for unspecific binding of biotin labelled oligonucleotides to the testing material.

**Instructions:**

Homogenize the (-) [Control](#) ISH probe and bring to 37°C. The pre-treatment of the test item (deparaffination, proteolysis, post-fixation, prehybridization) is determined by the user. The tissue / cell section must not be allowed to dry out during hybridization. For hybridization, pipette 15-25 µl of the prepared probe solution onto the section. Cover the section with a cover slip and seal. Hybridization occurs at a temperature determined by the user. The next process (e.g. washing, detection, counterstain, embedding) is also determined by the user. For safe and simple processing, we recommend the use of the ZytoVision wash buffer ([T-1026](#)) and the ZytoVision Detection systems ([T-1006/T-1010](#)), which exhibits particular compatibility with the (-) [Control](#)-ISH probe.

If you use [T-1023](#) as a control for probes developed by yourself we recommend the use of a complementary hybridization buffer (ZytoVision Product Nr. [T-1024](#)).

**Our experts are answering your questions.**

**Literature**

Wilkinson D.G.: In Situ Hybridization, A Practical Approach, Oxford University Press (1992); ISBN 0 19 963327 4

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