



20x FISH Wash Buffer

REF / Cat. No.: FA-003-050 50 ml

Instructions for use

Intended use

20x FISH Wash Buffer is a solution developed for washing steps as part of *in situ* hybridization (ISH) assays with formalin-fixed paraffin-embedded tissue sections on slides.
20x FISH Wash Buffer is intended for *in vitro* diagnostic use.

Summary and explanations

In situ hybridization is usually performed with tissue sections prepared out of formalin-fixed paraffin-embedded (FFPE) tissue blocks. During this procedure, washing of the slides is required at two stages of the protocol. First, pepsin solution has to be removed efficiently after proteolytic digestion. Second, after the hybridization step non-bound, excessive probe DNA must be washed off without affecting specifically bound probe DNA. This step requires a careful balance of the buffer's salt concentration and the temperature used. Stringency of washing increases with higher temperature and lower salt concentration, as hybridization of complementary DNA strands is stabilized by positively charged ions.

Principle of the method

20x FISH Wash Buffer is a 20fold concentrated buffer solution. For preparation of the working strength solution the buffer concentrate is diluted 1:20 with deionised or distilled water.

Reagent provided

REF / Cat. No. FA-003-050
50 ml 20x FISH Wash Buffer

Storage and handling

The solution should be stored at 2-8°C. 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. The prepared working strength solution is stable for 1 week, if stored at 2-8°C.

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

Preparation of the FISH Wash Buffer working strength solution (= 1x FISH Wash Buffer):

- Dilute FISH Wash Buffer concentrate 1:20 with deionised or distilled water and mix thoroughly.

ISH Procedure

FISH Wash Buffer is suitable for washing steps at two stages of the FISH Accessory Kit (Order-No. FA-Kit1-20) protocol:

1. Following proteolytic digestion, tissue slides are washed for 5 min at room temperature with 1x FISH Wash Buffer. For next steps, please refer to the instructions for use of the FISH Accessory Kit.
2. After hybridization, the cover slip is removed by incubation for 1 - 3 min at 37°C in 1x FISH Wash Buffer. Non-bound, excessive DNA probe is then washed off by another 2 x 5 min incubation at 37°C in 1x FISH Wash Buffer. For next steps, please refer to the instructions for use of the FISH Accessory Kit.

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

- In Situ Hybridization: A Practical Approach. 2nd Edition, Oxford University Press, 1998

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REF	Bestellnummer Catalog Number Reference du catalogue		Verwendbar bis Use By Utiliser jusque		Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
LOT	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température	RUO	Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
IVD	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		