

## ONCORE PRO CytoFISH Kit

Pretreatment and Post-hybridization Reagents for FISH Procedures on the ONCORE Pro Automated Slide Stainer  
902-OPRR6077K-060322

**Catalog Number:** OPRR6077K T60

**Description:** 60 tests

### Intended Use:

For Research Use Only. Not for use in diagnostic procedures.

### Summary & Explanation:

ONCORE Pro CytoFISH Kit contains reagents used in the pretreatment of cytological specimens to enhance probe accessibility to nucleic acid targets as well as a post-hybridization buffer used to eliminate non-specific binding of the probe.

Cytological specimens with FISH protocols usually require an enzymatic pretreatment to achieve proper staining. FISHzyme is a commonly used pepsin digestive enzyme. Enzyme pretreatment helps probe accessibility to nucleic acid targets. 10% Neutral Buffered Formalin diluted in PBS buffer (Fix Mix) acts as a fixative to better preserve cell morphology. CF Reagent Alcohol, 70% is necessary for tissue dehydration before a probe application. CF SSC Wash Buffer is a ready-to-use saline sodium citrate buffer (pH 7.0-7.5) that contains 0.3% NP40 and Proclin 950 as a preservative. CF SSC Wash Buffer contains 30 mM citrate, which is commonly identified as 2X SSC. Additional wash buffers FISH Wash Buffer and Hot Wash are utilized at different steps of the protocol before or after probe hybridization.

### Known Applications:

Fluorescent *in situ* hybridization cytological urine specimens

### Reagents Provided:

ONCORE Pro CytoFISH Kit is comprised of 7 solutions in pre-filled vials, plus empty vials for users to fill with CF Reagent Alcohol, 70%.

One kit is sufficient to perform 60 tests:

CF SSC Wash Buffer (OPRR6076 T15 x 4) 10.5 mL

FISHzyme (OPRR6066 T60 x 1) 14.5 mL

Fix Mix (OPRR6070 T30 x 2) 14.5 mL

FISH Wash Buffer (OPRR6069 T12 x 5) 14.5 mL

Hot Wash (OPRR6071 T20 x 3) 15.1 mL

HCl, 0.01N (OPRR6072 T60 x 1) 14.5 mL

DAPI (OPRR6073 T60 x 1) 14.5 mL

CF Reagent Alcohol, 70% (OPRR6079 T20 x 3)

Please note that reagent vials are labeled with T counts, which refers to how many slides a full vial can stain. For example, if a vial is labeled with a REF number ending in "T20", then this reagent, when full, will stain 20 slides. The "T60" kit can stain 60 slides and will contain 3 of the "T20" reagent vials to meet staining requirements. When scanning reagents, the ONCORE Pro software will display separate values for the "Number of Tests Required" and "Number of Tests Scanned". The "Number of Tests Required" refers to the numbers of dispenses aka "tests" needed for the run. The "Number of Tests Scanned" refers to the number of dispenses aka "tests" that are remaining in the scanned vial(s), which is retrieved from the RFID tag. Please note that more than one dispense aka "test" may be required to complete each slide. After scanning the reagent vials, the "Number of Tests Scanned" must be greater than or equal to the "Number of Tests Required" to ensure sufficient reagent to complete the run.

### Reconstitution, Dilution and Mixing:

CF Reagent Alcohol, 70% vials should be filled to the neck of the vials with Reagent Alcohol, 70% before placing on the instrument for use (See Technical Notes).

### Materials and Reagents Required but Not Provided:

Reagents and materials, such as FISH probes and ancillary reagents are not provided. Call Technical Support for additional information on reagents and instrument accessories.

Reagents Required but Not Provided	
1.	CytoFISH Multiplex FISH Probe (Empire SKU: OPRR7344T30)
2.	ONCORE Pro Wash Buffer (Empire SKU: OPRI6012MM)
3.	CF Reagent Alcohol, 70%

### Storage and Stability:

Store CF SSC Wash Buffer, CF Reagent Alcohol, 70%, DAPI, FISH Wash Buffer, Hot Wash, HCl, 0.01N, FISHzyme and Fix Mix at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date.

### Instructions for Use:

FISHzyme, FISH Wash Buffer, Fix Mix, Hot Wash, and HCl, 0.01N, CF SSC Wash Buffer and DAPI are provided in vials ready for use on the ONCORE Pro Automated Slide Stainer. Uncap the vials and place in the ONCORE Pro reagent tray. Fill the labeled empty vials with CF Reagent Alcohol, 70% and place in the ONCORE Pro reagent tray. The ONCORE Pro Automated Slide Stainer will apply reagent as required in the selected protocol. Refer to the ONCORE Pro Automated Slide Staining System User Manual for detailed instructions on instrument operation and additional protocol options.

### Technical Notes:

1. Reagent Alcohol, 70% is a routinely used reagent and available in prediluted concentrations.

### Limitations:

This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

### Precautions:

1. Refer to reagent Safety Data Sheet for precautions.  
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and



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specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. (3)



3. Microbial contamination of reagents may result in an increase in nonspecific staining.

### Precautions Cont'd:

4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.

5. Do not use reagent after the expiration date printed on the vial.

This FISH kit contains components classified as indicated in the table below in accordance with the Regulation (EC) No. 1272/2008

Hazard	Code	Hazard Statement
	H317	May cause an allergic skin reaction
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H319	Causes serious eye irritation
	H341	Suspected of causing genetic defects.
	H350	May cause damage to organs (optical nerves, kidney) (oral).
	H371	May cause cancer.
	H303	May be harmful if swallowed
	H318	Causes serious eye damage

### Technical Support:

Contact Empire Technical Support at +1.800.715.5880 for questions regarding this product.

### References:

1. Analysis of genes and chromosomes by nonisotopic in situ hybridization. Lichter P, et al. Genet Anal Tech Appl. 1991 Feb;8(1):24-35.
2. Fluorescence in situ Hybridization (FISH). Bayani J, Squire JA. Curr Protoc Cell Biol. 2004.
3. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition (M29-A4) Wayne, PA 2014.

