


# IMPATH ISH DETECTION KIT



## Product Availability

Cat. No. 44996  
Size 40 Tests

 PathCom Systems, Inc.  
6759 Sierra Ct. Ste# B  
Dublin, CA 94568

## Intended Use

For In Vitro Diagnostic Use.

Rev: 090514B

## Description

ImPath ISH Detection kit is a system for deparaffinization, target retrieval, enzyme digestion, hybridization and wash on formalin-fixed, paraffin-embedded tissue. It is intended for use in ISH (*in situ* hybridization) in conjunction with the ImPath36. For FISH (Fluorescence *in situ* hybridization), probe and DAPI containing mount medium are required, but not provided in the kit. For CISH (Chromogenic *in situ* hybridization), antibody and detection are also required, but not provided in the kit.

## Distributed by:

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## Summary and Explanation

ISH (*In situ* hybridization) is a technique supporting the identification of gene deletion, translocation and amplification in cells.

It is the responsibility of the operator to identify the best working conditions and the best reagents to perform the staining run.

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## Reagents Provided

Component	Quantity per kit
Dewax Solution 3a	1(one)
Dewax solution 3b	1(one)
Dewax Solution 3c	1(one)
Dewax Solution 3d	1(one)
Dewax Solution 3e	1(one)
Dewax Solution 4	1(one)
Retrieval Solution for ISH	1(one)
Pepsin	4(four)
DIH2O	1(one)

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## Dilution and Mixing

Dilute wash buffer (Catalog number 45002 and 45003) by mixing 19 portions of water with 1 portion of the wash buffer to final 1x. The rest of the ImPath Solutions are ready-to-use. Number of tests is programmed with RFID on each vial. No further dilution is required.

## Storage and Stability

Store at 2-8°C. Do not freeze. The reagents must be returned to the storage conditions identified above immediately after use. When properly stored, the reagents are stable to the date indicated on the label.

## Warning and Precautions

ImPath Solutions are harmful and irritating to the eyes, respiratory system and skin. It may cause lung and stomach damage if ingested. **Wear disposable gloves when handling reagents.** MSDS are available from your local representative upon request. There are no express or implied warranties which extend beyond this datasheet. A.Menarini Diagnostics is not liable for personal injury, property damage or economic loss caused by this product.

## INSTRUCTION FOR USE

### Reagents for ISH procedures on Instrument

Place the RFID tagged solution vials randomly in the Reagent Rack of the ImPath 36.

Turn on the unit, log in, press **Prepare Labels** to prepare the slide labels, place them on the slides, press **Load Slides**, put slides on the modules, press **Scan Slides**, then press **Scan Reagents** and allow the RFID Reader to identify and register the products, check on the required wash buffer and waste container, press **Start Staining Process** or click **Return to Main Screen** and press **Start**. The staining process is fully automated.

### Procedures Post Automation

#### FISH

Remove the slides from the instrument. Incubate the slides in 70%, 90%, and 100% ethanol, each for 1min. Air dry the samples protected from light. Pipet 15ul DAPI/Antifade-Solution onto the slides, cover the samples with a coverslip, incubate in the dark for 15min. Evaluation of the sample material is carried out by fluorescence microscopy. Filter sets for the following wavelength ranges are required: Green (chromosome 17): excitation at 503nm and emission at 528 nm, similar to FITC; Orange(Her2): excitation at 547 nm and emission at 572 nm, similar to rhodamine.

#### CISH

Remove the slides from the instrument. Incubate the slides in diluted Hematoxylin for 5min (needs to be optimized by users). Rinse the slides in running tap water for 2min. Incubate the slides in 100% ethanol three times, 30sec each. Incubate the slides in xylene two times, 30sec each. Add Mounting Solution and cover with coverslip. Evaluation of the sample material is carried out by light microscopy.