

# **CYTO Q**

## **Universal Antigen Recovery Solution**

### **with built-in pH stabilizer**

#### ***Technical Data Sheet***

##### **Reagent Category**

Boiling solution for recovering antigens

##### **Specific Reagents Supplied**

1 liter of working solution of tissue recovery solution with built-in pH stabilizer

#### **PRODUCT: NB304**

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#### **INTRODUCTION**

Recovering or unmasking antigens in formalin fixed tissues by heating tissue slides in an aqueous solution is now an accepted practice in the field of immunohistochemistry (IHC). This type of antigen recovery technique usually involves immersing deparaffinized slides in a solution of varying nature (ranging from metal salt solutions to citrate buffer) and heating the slides. The heat exposure time depends on the length of formalin fixation and the affinity and the titer of primary antibody employed. A cooling period usually follows the heating procedure. Traditionally, the uncovering of the antigen in formalin fixed tissues was accomplished by proteolytic enzyme digestion such as trypsin, pepsin and pronase. The method of heating tissue slides with commercially available or home brewed solutions possesses several problems, limitations and variables. Such variables include the fluctuation of pH during heat exposure period, uneven heating associated with microwaving procedures, the extreme evaporation of the liquid during microwaving procedure which results in sections heated without being immersed in fluid, and the tissue damage and morphology damage often observed when sections are treated in a pressure cooker or by microwaving technique. **“Cyto Q antigen recovery solution”** was developed to overcome the associated variables in the current technique of antigen recovery.

#### **PRODUCT DESCRIPTION**

“**Cyto Q Tissue Recovery Solution**” is formulated to make antigen recovery technique a gentler treatment for recovering antigens. It was further developed to be applicable with a conventional heat source (hot plates), microwaves, pressure cookers. “**Cyto Q tissue recovery solution**” maintains its customized pH during the boiling/heating period and the subsequent cooling period that follows. This recovery solution is designed to be gentle in action, to not cause damage to tissue morphology and cellular matrix, it is furthest developed to prevent sloughing of the tissue off the slide during the recovery procedure as often seen with delicate tissues such as bone marrow smears.

#### **INTENDED USE/APPLICATION**

This product is intended for use in boiling/heating (HIER treatment) of tissue section or cell smears using hot plate, microwaves, pressure cookers, steamers and water baths as the heat source for recovering antigens in formalin fixed tissues.

#### **PRODUCT FORMAT**

Working solution, **NO** dilution or adjustments necessary.

#### **STORAGE CONDITIONS**

**Store in refrigerator at 2-8°C through expiration date noted on the vial.**

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## INSTRUCTIONS

### **For direct heat (non-microwave heat source)**

1. Fill a beaker or any other heat resistant vessel halfway with "Cyto Q tissue recovery solution" and bring to boil over a hot plate.
2. Arrange deparaffinized slides in a metal rack or a heat resistant rack and immerse the slides in the solution.
3. Actively boil for 10 minutes.
4. Allow the slides to cool for 1 minute.
5. Immerse slides in the assay wash buffer for 1-minute.
6. Proceed with immunostaining procedure.

***FOR PROFESSIONAL AND RESEARCH USE***

**FOR ADDITIONAL TECHNICAL SUPPORT**

[techsupport@innovexbio.com](mailto:techsupport@innovexbio.com)

**CALL: 1-800-622-7808 US and Canada**

**Phone: (510) 234-6600      Web: [innovexbio.com](http://innovexbio.com)**

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