



American MasterTech

scientific laboratory supplies

POST OFFICE BOX 2539 LODI, CALIFORNIA 95241 TELEPHONE: 1 (800) 860 4073 FACSIMILE: 1 (209) 368 4136



## Cyto Q

### ImmunoDiluent & Block

Advanced Antibody Stabilizing-Diluting and Storage Solution

### *Technical Data Sheet*

#### Reagent Category

Antibody Diluting and Storage Buffer

#### Specific Reagents Supplied

□ 125 ml of Cyto Q ImmunoDiluent & Block

PRODUCT# IMI01277E (125ml)

---

#### INTRODUCTION

Antibodies require dilution in a diluting solution for performing immunoassays. Antibodies also require proper storage condition to prevent loss of activity and breaking down of antibodies. Traditionally, antibody-diluting buffers only consists of a buffered saline and some carrier proteins. This formulation is not adequate for long term storage of antibodies and immunoglobulins.

#### PRODUCT DESCRIPTION

“**Cyto Q Immuno Diluent**” is an advanced diluting solution applicable to dilution of all antibodies and immunoglobulins for performing immunoassays such as in immunohistochemistry, ELISA and flow cytometric assays. “**Cyto Q Immuno Diluent**” is formulated to stabilize antibodies, to block non-specific binding sites, to facilitate higher degree of antigen and antibody binding and therefore allowing higher dilution of antibodies to be employed for immunoassays. “**Cyto Q Immuno Diluent**” is also formulated for long-term storage of antibodies. Antibodies diluted and stored in **Cyto Q ImmunoDiluent** remain stable in refrigerator (2-8°C) for 4 years. This minimizes the need for aliquoting and freezing antibodies at -20°C and -70°C. When antibodies are intended for storage beyond 4 years, aliquoting in ImmunoDiluent and freezing at -20°C is recommended.

“**Cyto Q Immuno Diluent**” also prevents drying of tissues and cell smears during long incubation period of 2 hours to overnight that are often employed for some primary antibodies in IHC procedures. Diluting antibodies in “**Cyto Q ImmunoDiluent**” eliminates the set up and use of a humidified chamber for antibodies requiring over 2 hours of incubation time. Antibodies remain moist and fully active for 36 hours. “**Cyto Q Immuno Diluent**” also assists in blocking non-specific bindings while specific binding is taking place by the specific action of primary antibody.

This diluent is applicable to diluting antibodies for all immunoassay types such as immunohistochemistry (IHC), ELISA and flow cytometric assays. It can also be used for dilution of secondary antibodies in indirect immunoassays.

#### INTENDED USE/APPLICATION

This reagent is intended for dilution and storage of concentrated antibodies.

**CONTINUED OVER**



# American MasterTech

scientific laboratory supplies

POST OFFICE BOX 2539 LODI, CALIFORNIA 95241 TELEPHONE: 1 (800) 860 4073 FACSIMILE: 1 (209) 368 4136

## PRODUCT FORMAT

Working solution, no dilution or adjustments necessary.

## STORAGE CONDITIONS

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

## INSTRUCTIONS

1. For lyophilized antibodies: Add recommended volume of ImmunoDiluent and store in refrigerator at 2-8°C for 4 years. For prolonged shelf life beyond 4 years, aliquot and freeze in -20°C freezer.
2. For liquid concentrate antibodies: Dilute by the number recommended dilution factors for the immunoassay of interest. Diluted antibodies are stable in refrigerator for 4 years. For prolonged shelf life beyond 4 years, aliquot and freeze in -20°C freezer.
3. For continuous use; Dilute antibodies in "Cyto Q Immuno Diluent" and store in refrigerator at 2-8°C. For extended storage over 4 years; Aliquot in small volumes and freeze at -20°C.

## NOTES

For best results do not thaw and freeze antibodies more than once. Antibodies lose activity upon repeated freezing and thawing.