

PEROX-BLOCK

STABLE PEROXIDE BLOCK

For Blocking red blood cell staining in IHC

Technical Data Sheet

Reagent Category

Stable Peroxide Block Solution

PRODUCT NUMBER: HP1000-60 (60 ml)
HP1000-125 (125 ml)
HP1000-500 (500 ml)

Specific Reagents Supplied

- 60 ml of Stable Peroxide Block solution, Ready-To-Use
- 125 ml of Stable Peroxide Block solution, Ready-To-Use
- 500 ml of Stable Peroxide Block solution, Ready-To-Use

INTRODUCTION

Red blood cells and some white blood cells stain non-specifically in immunoperoxidase (IHC) staining, mainly due to the presence of endogenous peroxidase enzyme in those cells. The stained red blood cells interfere with visualization and interpretation of IHC stains; Blocking endogenous peroxidase enzyme present in red blood cells is a required step to avoid RBC non-specific staining.

The traditional blocking with freshly made 3% hydrogen peroxide is costly and time-consuming as both 30% hydrogen peroxide stock solution and 0.1 to 3% hydrogen peroxide working solutions are extremely unstable and they readily dissociate to water and oxygen and therefore, working solutions need to be freshly prepared prior to IHC staining.

PEROX-BLOCK is a Stable Peroxidase Blocking Solution developed for preventing red blood cells from non-specific staining in IHC procedures for both for paraffin and frozen tissue sections and also for IHC staining of cell smears and cytospin preparations.

PEROX-BLOCK is a single Ready-To-Use solution developed to eliminate the need for daily dilution and preparation of hydrogen peroxide working solution. **PEROX-BLOCK** has year(s) of shelf life.

PRODUCT DESCRIPTION

PEROX-BLOCK is a stable Ready-To-Use single solution with long lasting shelf life; It is employed to quench endogenous peroxidase enzyme present in red blood cells and to prevent RBC from staining in IHC- Paraffin and IHC-Frozen procedures. It is also applicable to blocking RBC staining in blood smears and cytospin preparations undergoing IHC staining.

PEROX-BLOCK is a stable Ready-To-Use solution that does NOT require dilution and has year(s) of shelf life. **PEROX-BLOCK** is a replacement for traditional 0.1-3% unstable hydrogen peroxide solution that has to be freshly prepared prior IHC staining.

Blocking with Stable PEROX-BLOCK must be employed for IHC-frozen and IHC-paraffin sections staining when HRP enzyme with DAB or AEC chromogens are used.

APPLICATION/INTENDED USE

PEROX-BLOCK is intended for blocking non-specific staining of red blood cells and other peroxidase enzyme containing cells in IHC stains. It can be used for both frozen and paraffin tissue sections and cell preparations.

CONTINUED NEXT PAGE

STORAGE CONDITIONS

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

PRODUCT FORMAT

Working solution (Ready-To-Use); No dilution or adjustment required.

INSTRUCTIONS

Specimen Preparation for IHC Staining

For paraffin sections: Deparaffinize sections and rehydrate in water.

For Frozen sections: Cut sections, dry and fix in cold acetone or the fixative of choice. Incubate in PBS for 3 minutes at room temperature.

For smears and cytopspins; Prepare smear or cytopsin of cell suspensions and observe the following instructions:

1. Apply 3-4 drops of "**PEROX-BLOCK**" to achieve specimen coverage.
2. Incubate for **15-minutes**.
3. Rinse slides with 3 quick changes of water.
4. Proceed with IHC staining.

When batch-handling slides, pour **PEROX-BLOCK** into a coplin jar/ vessel; Immerse slides into the solution and incubate for 15-minutes. Remove slides from jar and rinse slides with 3 quick changes of water, proceed with IHC staining.

After each use, place a lid on the jar/ vessel containing **PEROX-BLOCK** and return to the refrigerator, **PEROX-BLOCK** can be re-used and replenished as the level goes down.

Note:

Peroxide blocking step is **NOT** required in Alkaline phosphatase-IHC staining. This blocking step is only required in immunoperoxidase-IHC staining and when employing DAB or AEC chromogens.

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FOR ADDITIONAL TECHNICAL SUPPORT
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