


General Reagents	REF	Volume
	PSW-GRR2113W-0055	55 ml
	PSW-GRR2113W-0110	110 ml
	PSW-GRR2113W-0500	500 ml

## Intended use

PathoSage Peroxidase Blocking Solution is intended for Research Use Only in immunohistochemistry (IHC) procedures on formalin-fixed, paraffin-embedded (FFPE) tissue sections. This reagent is designed to block endogenous peroxidase activity, thereby minimizing nonspecific background staining. Its application prior to incubation with primary and secondary antibodies ensures improved signal-to-noise ratio and enhances the specificity and clarity of IHC staining results.

## Specification

**Type:** Peroxidase Blocking Reagent (Hydrogen Peroxide-based)

**Form:** Ready-to-use liquid

**Compatibility:** Suitable for HRP-based detection systems in immunohistochemistry

**Incubation Time:** 10 minutes at room temperature

**Stability:** Highly stable formulation, non-flammable, reduced toxicity compared to H<sub>2</sub>O<sub>2</sub>/methanol

**Appearance:** Clear, colorless solution

## Principle of Method

1. Prepare formalin-fixed, paraffin-embedded (FFPE) tissue sections according to standard histological procedures.
2. Deparaffinize and rehydrate the tissue slides.
3. Wash the slides in wash buffer.
4. Apply Peroxidase Blocking Solution (containing stabilized H<sub>2</sub>O<sub>2</sub>) to cover the tissue section.
5. Incubate slides for 10 minutes at room temperature.
6. Rinse slides 2 times with wash buffer to remove excess blocking reagent.
7. Proceed with antigen retrieval (heat- or enzyme-induced) and continue the immunohistochemistry staining protocol.

## Materials Provided

PathoSage Peroxidase Blocking

## Materials Required but not Provided

- Xylene and ethanol (for deparaffinization and rehydration)
- Wash buffer (e.g., PBS or TBS)
- Primary Antibodies
- Detection Kit
- Mounting medium and cover slips
- Humidified chamber (for incubations)
- General laboratory supplies (microscope slides, slide racks, pipettes, absorbent paper)
- Light microscope

## Storage and Stability

Store at 2–8 °C. Do not use after expiration date stamped on bottle. If reagents are stored under any conditions other than those specified, the user must verify the conditions.

## Warnings and Precautions

Contains stabilized hydrogen peroxide; handle with care. Avoid contact with skin, eyes, and mucous membranes. In case of accidental exposure, rinse immediately with copious amounts of water.

Do not ingest or pipette the reagent by mouth.

Wear appropriate personal protective equipment (PPE), including gloves, lab coat, and protective eyewear.

Specimens, before and after fixation, and all materials exposed to them, should be considered potentially infectious and handled according to established biosafety practices.

Avoid microbial contamination of the reagent, as this may lead to increased background staining or reduced performance.

There are no obvious signs to indicate instability of this product. Therefore, positive and negative controls should be tested simultaneously with patient specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact PathoSage Support

## General Limitations

Immunohistochemistry (IHC) is a multistep process requiring specialized training in tissue preparation, reagent handling, and interpretation of staining results.

The effectiveness of Peroxidase Blocking Solution depends on proper tissue fixation, embedding, and sectioning. Variations in these procedures may lead to inconsistent staining or incomplete blocking of endogenous peroxidase.

Inadequate blocking may result in nonspecific background staining, while excessive blocking may reduce staining intensity of the specific target.


Tissue artifacts may arise from improper fixation, drying, heating, or contamination, potentially leading to false positive or false negative results.

Reagent performance may be influenced by factors such as incubation time, temperature, and buffer composition. Any deviation from the recommended procedure must be validated by the user.

Results should always be interpreted in conjunction with appropriate positive and negative controls, morphological evaluation, and the patient's clinical history by a qualified pathologist.

## LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration Date	<b>REF</b>	Reference Number	<b>LOT</b>	Lot Number
<b>RTU</b>	Ready To Use	<b>RUO</b>	Research Use Only		