


General Reagents	REF	Volume
	PSW-GRI2112W-0100	100 ml
	PSW-GRI2112W-0500	500 ml
	PSW-GRI2112W-1000	1000 ml

Availability

Intended use

PathoSage Citrate Buffer is intended for in vitro diagnostics (IVD) use in immunohistochemistry (IHC) for Heat-Induced Epitope Retrieval (HIER) on formalin-fixed, paraffin-embedded (FFPE) tissue sections prior to antibody application. HIER is used to unmask antigenic epitopes that may be masked during formalin fixation and paraffin embedding. This process enhances epitope availability and improves the specificity and intensity of antibody staining.

Specification

Buffer Type: Citrate buffer

Form: Liquid concentrate

Concentration: 10X

Dilution Ratio: 1:10

Diluent: Deionized Water

pH (after dilution): 6.0± 0.3

Maximum Usage (After Dilution): Up to 3 runs within 5 days

Appearance: Clear, colorless to slightly yellow solution

Principle of Method

1. Deparaffinize and rehydrate the tissue slides.
2. Fill the PT Module tank with citrate buffer and deionized water, to achieve 1:10 dilution.
3. Pre-heat the PT Module until temperature reaches 65°C and place the formalin-fixed slides in slide racks into the PT Module tank.
4. Heat the citrate buffer and slides to 98°C and incubate for 20 minutes.
5. Cool slides in the PT Module to 65°C.
6. Remove slides and cool to room temperature for at least 5 minutes in a PBS or TBS based buffer.
7. Continue with staining according to IHC protocol.

Note: Alternative heating sources, such as a microwave or a pressure cooker, can be used to replace the PT Module tank. The optimal incubation time for these heating sources should be determined by authorised personnel / researchers.

Materials Provided

PathoSage Citrate Buffer

Materials Required but not Provided

- Stainless steel pressure cooker (it is recommended that the gaskets are changed at regular intervals to maintain optimum retrieval conditions).
- General immunohistochemistry laboratory equipment.

Storage and Stability

Store at room temperature. Do not use after the expiration date.

Warnings and Precautions


Immunohistochemistry is a multistep diagnostic process that consists of specialized training in the selection of the appropriate reagents; tissue selection, fixation, and processing; preparation of the IHC slide; and interpretation of the staining results.

Tissue staining is dependent on the handling and processing of the tissue prior to staining. Improper fixation, freezing, thawing, washing, drying, heating, sectioning or contamination with other tissues or fluids may produce artifacts, antibody trapping, or false negative results. Inconsistent results may be due to variations in fixation and embedding methods, or to inherent irregularities within the tissue. Excessive or incomplete counterstaining may compromise proper interpretation of results.

The clinical interpretation of any staining or its absence should be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration Date	REF	Reference Number	LOT	Lot Number
RTU	Ready To Use	IVD	In Vitro Diagnostic		