

Citrate Buffer, pH 6 (10X)

<u>Cat No.</u>	<u>Quantity</u>
10-0062	500 mL Concentrate
Intended Use	For In Vitro Diagnostic Use. This product is intended to be used for the heat induced epitope (or antigen) retrieval (HIER) of formalin-fixed, paraffin-embedded (FFPE) tissues prior to immunohistochemical (IHC) staining.
Reagents Supplied	One bottle of Concentrate 100 mM Citrate Buffer, pH 6.
Summary And Explanation	Formalin fixation forms protein cross-links that mask the antigenic sites in tissue specimens, thereby giving weak or false negative staining for IHC detection of certain proteins. Citrate Buffer solution is designed to break the protein cross-links, thus unmasking the antigens and epitopes in FFPE tissue sections and enhancing staining intensity of many antibodies.
Procedure	For use after deparaffinizing and rehydrating slides. If necessary, block endogenous peroxidase activity before HIER step. <ol style="list-style-type: none">1. Make 1X Citrate Buffer using 1 part 10X Citrate Buffer and 9 parts Reagent Water.2. Wash slides in 3 changes of 1X PBS or reagent water to remove alcohol/peroxidase block.3. Place slides in appropriate sized slide container and fill with 1X Citrate Buffer. Make sure tissue section is immersed.4. Incubate for 20-40 minutes at temperature $\geq 95^{\circ}\text{C}$ Note: Optimal incubation time in variable heating source should be determined by user5. Turn off the heating instrument and allow slides to cool to room temperature for at least 20 minutes.6. Wash slides in 3 changes of 1X PBS to remove Citrate Buffer.7. Resume standard IHC staining procedure.
Storage	Store at 2-8°C. Do not freeze. All performance claims are void after the expiration date.
Materials Required But Not Supplied	FFPE tissue section Reagent Water 1X PBS Heating Instrument
Precautions	For professional users only. Excessive epitope retrieval of FFPE tissues could result in damage of tissue morphology or tissue sections becoming detached from the slide. Inadequate epitope retrieval of FFPE tissue could result in weaker staining.