

**Citrate Buffer, 0.1M, pH 6.0 [10X]**
**Cat. No. 66326-0, 66326-1 & 66326-2**
**Introduction**

Citrate buffer is used on formalin-fixed, paraffin-embedded tissue sections mounted on glass slides for target retrieval prior to immunohistochemistry (IHC) procedures. Target retrieval prior to IHC procedures obtains positive results, or results in an increase in staining intensity with many primary antibodies.

**Item(s) Supplied**

Name	Cat. No. 66326-0	Cat. No. 66326-1	Cat. No. 66326-2	Storage Temp*
<b>Citrate Buffer, 0.1M, pH 6.0 [10X]</b>	100 mL	250 mL	500 mL	2-8°C

\*The Citrate Buffer is shipped at ambient temperature. Upon receiving, store it refrigerated at 2-8°C.

**IMPORTANT NOTE ABOUT THE PRODUCT:**

- Our Citrate Buffer is designed for in vitro Research Use Only and must not be used for therapeutic or clinical purposes in humans or animals.
- Follow all safety precautions for handling any biohazardous materials.
- Properly dispose of all contaminated materials following the state and federal laws.
- Decontaminate the work surfaces and use a Biosafety cabinet whenever aerosols might be generated.

**Preparation Before Use**

- a. Our Citrate Buffer is supplied at 10X concentration and must be diluted to 1X with DI or molecular grade water to make the Working Solution.
- b. Mix one part of concentrated Antigen Retrieval Solution with nine parts of molecular grade or distilled water, e.g., Take 10mL of the supplied 10X buffer and add 90mL of DI water to make final volume 100mL.
- c. Shake the bottle well to completely mix the concentrate with water
- d. Store the diluted buffer with cap tightly secured for use.

**Recommended Protocol for Antigen Retrieval**

The antigen retrieval protocol is recommended for use in tissues that have been fixed in formalin only. Ensure that the fixed sections are adequately embedded in paraffin. Cut tissue sections to 4-5 microns, then proceed as below:

1. Deparaffinize and rehydrate tissue sections.
2. Place slides into 1X retrieval solution in a slide container (e.g., Coplin Jar, staining dish, etc.)
3. Retrieve sections under pressure
4. After take-off reagent jar containing slides from pressure cooker, allow the slides to cool for 20 minutes to reach room temperature.
5. Wash slides in deionized water and then with wash buffer. Proceed with immunostaining recommendations in the antibody datasheet.
6. Gently rinse by gradually adding DI water to the solution, then remove slides and rinse with DI water. Its ready for performing down the line experiments as needed.

**RELATED PRODUCTS:**

1. **Acid Citrate Dextrose (ACD) Solution B (Cat. No. 10358, 10358-1 and 10358-2)**  
Used as an anticoagulant for whole blood and contains Citric acid (anhydrous) 4.4 g/L, Sodium citrate (dihydrate) 13.2 g/L and Dextrose (monohydrate) 14.7 g/L
2. **RBC Lysis Buffer (Cat. No. 10403 and 10403-1)**  
Used for lysing the red blood cells (RBCs) in samples containing white blood cells, such as whole blood, buffy coats, and bone marrow. It is supplied as ready to use solution in 125 ml and 250 ml sizes.

3. **Normal Saline (Cat. No. 10381 and 10381-1)**  
Normal Saline Solution is 0.9% NaCl, useful in research laboratories.
4. **Phosphate Buffered Saline (PBS), 10X (Cat. No. 10382 and 10382-1)**  
Phosphate Buffered Saline (PBS), supplied in 10X concentration and contains, 43mM NaH<sub>2</sub>PO<sub>4</sub>, 1.37M NaCl, 27mM KCl, 14mM KH<sub>2</sub>PO<sub>4</sub>, pH 7.4
5. **Protease Inhibitor Cocktails (Cat. No. 10471, 10472, 10473, 10474 and 10475)**  
For inhibiting protease activity in the protein extracts: General, Bacterial, Mammalian, Plant and Recombinant

For Other Related Products, please visit our website [www.CephamLS.com](http://www.CephamLS.com) or contact us

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