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# Citrate Plus (10X) HIER Solution

**Description:** Citrate Plus (10X) HIER Solution is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

**Availability:**

<u>Item #</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

**Storage:** Store reagent at 2-8° centigrade or room temperature.

**Procedure: (Autoclave/Pressure Cooker)**

1. Rehydrate tissue slides.
2. In a glass or plastic (Autoclavable) Coplin jar, add 5 ml of Citrate Plus and 45 ml of deionized water.
4. Submerge slides in diluted Citrate Plus and loosely cap.
5. Add Distilled water to bottom of Autoclave or Pressure Cooker (about 1 inch deep in Pressure Cooker).
6. Place Coplin jar in Pressure Cooker or Autoclave.
7. Turn heat on and allow pressure to rise to 20-25 PSI.
8. Maintain pressure at 20-25 PSI for 5 minutes.
9. Turn off heat source and allow to cool.
10. When pressure has dropped to ambient, carefully remove lid or open door.
11. Using tongs, remove Coplin Jar and place on counter.
12. Once Coplin Jar cools to room temperature remove slides, rinse several times in buffer and proceed with staining as usual.

**Procedure: (Vegetable Steamer)**

1. Rehydrate tissue slides.
2. In a plastic Coplin jar, add 5 ml of Citrate Plus and 45 ml of deionized water.
3. Loosely cap the coplin jar and place in a vegetable steamer for 15 minutes to heat solution (Prior to submersion of slides).

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4. Using tongs, remove the coplin jar from the steamer. Carefully remove cap and submerge slides. Recap loosely and return jar to steamer.
5. Steam for 20 minutes. Allow jar with solution and slides to cool to room temperature.
6. Remove slides and rinse in buffer several times.
7. Continue with staining according to protocol.