Safe & Effective


# SEROCIT

Trisodium Citrate 4%, 46.7%

La Renon

# SEROCIT™

## Trisodium Citrate 4%, 46.7% - Catheter Locking Solution

**Indication** - Serocit is used as a catheter locking solution to prevent coagulation of the blood in any type of intravenous catheter.

**Mechanism of action-** Trisodium citrate causes anticoagulation by chelation of ionized calcium in the extracorporeal circuit into a soluble complex. Because calcium is an integral ion involved into the clotting cascade, local removal by citrate prevents the activation of clotting co-factors, factor X and prothrombin and the formation of fibrin. Systemic anticoagulation does not occur. Antimicrobial effect in Serocit 46.7% is through binding and removal of calcium of Ca ions in the surrounding milieu. Calcium ions may regulate several genes responsible for growth and survival of microbes.

**Administration-**

- Aseptic technique must be maintained at all times.
- Prior to initiation of dialysis session, Serocit instilled in previous session should be discarded.
- Flush each catheter lumen with 5ml of sterile 0.9% sodium chloride solution to remove any blood remaining from the previous operation.
- Extract the exact priming volume (prescribed by the catheter manufacturer) of Serocit from the vial, using a 5 ml or smaller syringe, to ensure accurate volume.
- Inject the priming volume of Serocit slowly into the catheter.

**Composition-**

Each ml of Serocit 4% contains -
Tri Sodium Citrate IP - 40mg
Water for Injection -q.s.

Each ml of Serocit 46.7% contains -
Tri Sodium Citrate IP - 467mg
Water for Injection -q.s.

**Clinical Advantages of SEROCIT - (compared with heparin)**

- Reduction of clotting and tPA use [1-5]
- Better outcomes over catheter exchange [2]
- Reduces biofilm [3]
- Reduction of hospitalization [2]
- Cost efficient [1,2,4]

**References:**


1. *MacRae J et al, Citrate 4%versus Heparin for the reduction of Thrombosis., Clin J Am Soc Nephrol 3:369-374, 2008*
2. *Lok CE et al, Trisodium Citrate 4%-an alternative to heparin capping of Hemodialysis catheters -Nephrol Dial Transplant 22,477-483,2005*
3. *Shanks RM,Catheter lock solutions influence staphylococcal Biofilm Formation on Abiotic Surfaces Nephrol Dial transplant 21, 2247-2255, 2006.*
4. *Grudzinski L et al, Sodium Citrate 4% locking solution for central venous dialysis catheters- an effictive more cost efficient alternative to heparin. Nephrol Dial Transplant 22:471-476,2007*
5. *Meeus G et al, A prospective, randomized, double blind crossover study on the use of 5% Sodium citrate lock vs 10% citrate lock. Blood Purif 23, 101-105, 2005.*



**La Renon Healthcare Pvt. Ltd.**

207-208 ISCON Elegance | Circle P | Prahlad Nagar Cross Roads
S.G.Highway | Ahmedabad - 380015 | Gujarat | India.
Phone: +91-79-3046-1000 (30 Lines) | Fax: +91-79-3046-1001
E-Mail: info@larenon.com | www.larenon.com


I am_____
Call me on_____
Mail me at_____