



Citra-Lock™

**Safe &
Effective**

**Catheter
Lock
Solution**



**Anti
Coagulant**

**4% TSC
(trisodium citrate)**



Dirinco®
Always innovating



Citra-Lock™

The **effective** way to lock every catheter



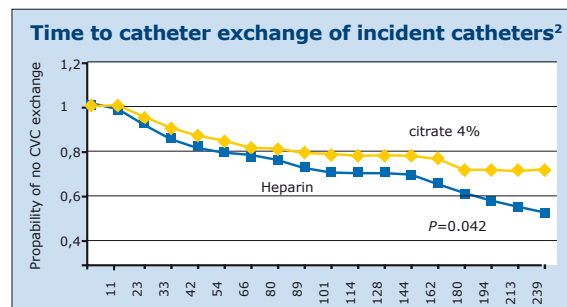
Citra-Lock™ 4% is effective in maintaining catheter patency.

Trisodium Citrate 4% (TSC) works as an anti-coagulant and does not appear to have any increased incidence of infection ⁷.

Clinical advantages of Citra-Lock™ 4% (compared with heparin):

- reduction of clotting and tPA use ^{1,5}
- better outcomes over catheter exchange ²
- reduces biofilm ³
- reduction of hospitalisation ²
- cost efficient ^{1,2,4}

The catheter exchange rates were greater for catheters locked with heparin (2.98/1000 CVC days) compared with trisodium citrate 4% (1.65/1000 CVC days).



REFERENCES:

1. MacRae J et al, Citrate 4% versus Heparin and 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 haemodialysis 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 effective, 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% citrate-lock vs 10% citrate lock. Blood Purif 23, 101-105, 2005
6. Vanholder et al, Diagnosis, prevention and treatment of haemodialysis catheter-related blood stream infections (CRBSI), a position statement of European Renal Best Practice (ERBP). NDTplus June 2010
7. Moran JE and Ash SE, Locking Solutions for Hemodialysis Catheters; Heparin and Citrate. A Position Paper by ASDIN. Seminars in Dialysis 21,1-3 , 2008

Anti Coagulant
4% TSC
(trisodium citrate)

*The **safe** way to lock every catheter*

Citra-Lock™ 4% is recommended by the European Renal Best Practice Guidelines ⁶ (ERBP) and the American Society of Diagnostic and Interventional Nephrology ⁷ (ASDIN).

**Citrate locks have been extensively studied.
Citra-Lock™ 4% offers the best benefit/risk ratio ⁷.**

Clinical advantages of Citra-Lock™ 4% (compared with heparin):

- safe ^{1,2,6}
- avoids heparin-associated bleeding ¹
- improves reliability of INR assays ¹ (prothrombin time - time/international normalised ratio)
- safe for heparin induced thrombocytopenia (HIT patients) ⁴
- no side effect ^{1,2,4}





Citra-Lock™

in a **needle-free** vial

Safe & Effective

Catheter Lock Solution

Increase safety & Simplify handling



The new Citra-Lock™ vial features a drip free Luer-Slip/Luer-Lock connector:

- preventing microbial contamination
- protecting against needle stick injuries
- reducing handling steps
- promoting intuitive handling

www.citra-lock.com to watch the Citra-Lock™ instruction video



Citra-Lock™ 4%
5ml vial



Boxes contain
20 x 5ml vials

Art.nr. Citra-Lock™ 4%: 24060201

ORDERING INFORMATION:

Please email your enquiry to info@citra-lock.com. We will direct you to our local distributor.

Also Available: Citra-Lock™ 30%
Citra-Lock™ 46,7%

Citra-Lock™ is a Dirinco product and registered as a Medical Device

CE 1275



Citra-Lock™ distributor

www.citra-lock.com
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Dirinco®
Always innovating

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