



# Heat Disinfectant for Hemodialysis Unit Cito NovaClean 50%

**Safest Sterilization  
Edible ingredients  
Excellent Decalcification**



**Very environmentally friendly**

▪ **Description**

Cito NovaClean 50% solution is a high level disinfectant based on citric acid as a main ingredient. Cito NovaClean 50% is a chemo-thermal disinfectant and decalcification of hemodialysis machines in on process and effects on a variety of microorganisms (bacteria, fungi, viruses and spores). The synergistic effect of its components makes Cito NovaClean 50% a potent disinfectant solution.

▪ **Advantages**

- Simultaneous disinfection and descaling
- Prevents the formation of biofilm and high efficiency in its removal
- Excellent descaling (carbonate, calcium, magnesium)
- Eliminates organic blood residues (fat and protein)
- Colorless and odorless
- Excellent stability
- High compatibility with dialysis machine (without causing corrosion and damage to the machine)
- This solution is composed of edible organic acids, so it does not cause any allergies and toxicity for the patient (safe)
- This solution has a high stability and decomposes into non-toxic substances in nature (biodegradable and environmentally friendly)
- Distinctive sterilization power with heating mode

▪ **Efficacy Result**

• **Disinfection effect**

Cito NovaClean 50% has superior bactericidal, fungicidal, sporicidal and antiviral effect in 80 -85 °C.

• **Mechanism of antimicrobial action**

Destruction of the phospholipid layers in the cell membrane; disturbance of the intracellular pH balance; activity strongly increased by an increase in temperature.

<b>Test Organisms</b>	<b>Efficacy/time contact/concentration</b>
Sporicidal: Bacillus subtilis (ATCC 6633)	100%, 10 min, 2%
Bactericidal: Staphylococcus aureus (ATCC 6538) Esterichia coli (ATCC 10536) Pseudomonas aeruginosa (ATCC 15442)	100%, 10 min, 2%
Fungicidal: Candida albicans (ATCC 10231)	99.99%, 10 min, 2%

• **Decalcification effect**

Excellent removal of inorganic deposits

• **Mechanism of decalcifying action**

Formation of Ca/Mg water soluble salt

• **Cleaning effect**

Cito NovaClean 50% can remove and prevent biofilm and organic matter

- **Corrosion effect**

Ingredients of Cito NovaClean 50% do not damage to machine component and pipelines.

- **Compositions**

Citric acid 50%, other organic acid to increase effectiveness 2%.

- **Instruction for use**

Cito NovaClean 50% can be used all of hemodialysis machine with heat function. To use Cito NovaClean 50%, follow the instruction of manufacturer of the hemodialysis machines for heat disinfection with citric acid based disinfectant, or follow the recommends of hemodialysis machine maintenance engineers.

- **Warnings and Precautions**

- Inspect the container before use.
- The solution inside the canister should be transparent and without any suspended particles, and its packaging should be healthy, otherwise it should not be used.
- In case of direct contact with the Cito NovaClean 50% rinse the contacted place immediately with plenty of warm water.
- In case of accidental ingestion of Cito NovaClean 50%, see a doctor.
- Wearing gloves and face shield is recommended during the use of Cito NovaClean 50%.
- In closed containers, store at 1 to 30 ° C away from direct sunlight.
- Keep Cito NovaClean 50% standing during storage and transport.
- Avoid throwing canister during transport.

- **Packaging**

10 L canister

- **Shelf -life**

18 months from manufactured date



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