

## **Cold Disinfectant for Hemodialysis Unit NovaCleanPlus**



**Fast sterilization  
Excellent Decalcification  
Very environmentally friendly**

**Without inorganic acid compared to other products,  
Organic acid improves toxicity and corrosiveness and  
maintains peracetic acid stability**

▪ **Description**

NovaCleanPlus solution is a high level disinfectant based on Peracetic acid as a main ingredient. NovaCleanPlus is a cold disinfectant and decalcification of hemodialysis machines in on process and effects on variety of microorganisms (bacteria, fungi, viruses and spores).

▪ **Advantages**

- Simultaneous disinfection and descaling
- Prevents the formation of biofilm and high efficiency in its removal
- Excellent descaling (carbonate, calcium, magnesium)
- Safe to users and patients (low toxicity and no irritation).
- Simply rinse after use with water.
- Very suitable for hemodialysis machine and its components (Stainless steel, PVC, PP, PE, and rubber didn't show any corrosion).
- No remaining in water and decomposed into water and oxygen in the end (biodegradable and environmentally friendly)

▪ **Efficacy Result**

• **Disinfection effect**

NovaCleanPlus is excellent sterilization in low temperature, low concentration against all micro-organism including Spores (hardest organism to kill). It oxidizes all micro-organism membrane very rapidly and micro-organism are destructed after use. Peracetic acid as main ingredient in NovaCleanPlus, in even low concentrate is characterized by very rapid and strong sterilant, has Superior Bactericidal, Sporicidal, Fungicidal, Mycobactericidal and doesn't create resistant microbial.

• **Mechanism of antimicrobial action**

Damage of the cell wall through oxidation of membrane proteins, resulting in oxidation of liberated fatty acids, proteins, DNA, etc. Damage of the envelope of enveloped viruses as well as oxidation of the coat proteins.

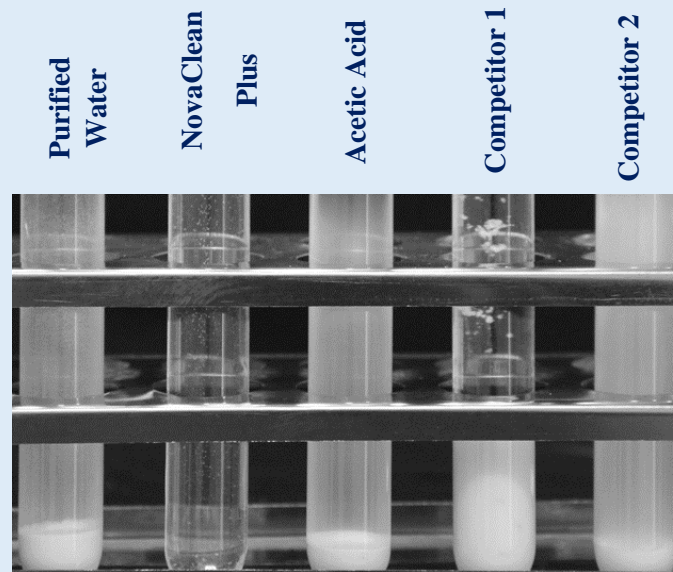
Test Organisms	Efficacy/time contact/concentration
Sporicidal: Bacillus subtilis (ATCC 6633)	100%, 5 min, 3%
Bactericidal: Staphylococcus aureus (ATCC 6538) Esterichia coli (ATCC 10536)	100%, 5 min, 3%
Fungicidal: Candida albicans (ATCC 10231)	99.99%, 5 min, 3%

- Decalcification effect

Excellent removal of inorganic deposits

- Mechanism of decalcifying action

Formation of Ca/Mg water soluble salt

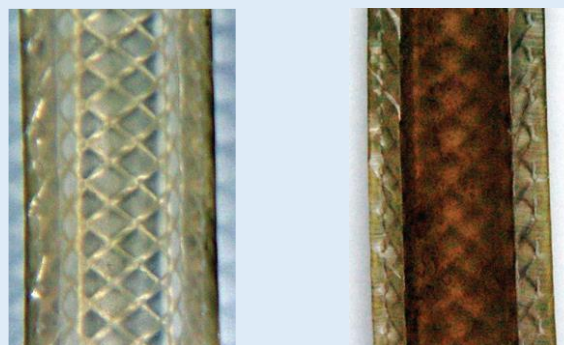


**NovaClean Remove 96% of CaCO<sub>3</sub> after 10 min.**

- Cleaning effect

NovaCleanPlus can remove and prevent biofilm

**No dilution**



**Before**

**After**

**Biofilm removal (14 days)**

- **Corrosion effect**

Ingredients of NovaCleanPlus do not damage to machine component and pipelines.

- **Compositions**

Peracetic acid 3%-4%, Hydrogen peroxide 25%-27%, Acetic acid 8%-10%

- **Instruction for use**

NovaCleanPlus can be used all of hemodialysis machine with cold function. To use NovaCleanPlus, follow the instruction of manufacturer of the hemodialysis machines for heat disinfection with Peracetic 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 NovaCleanPlus rinse the contacted place immediately with plenty of warm water.
- In case of accidental ingestion of NovaCleanPlus, see a doctor.
- Wearing gloves and face shield is recommended during the use of NovaCleanPlus.
- In closed containers, store at 4 to 30 ° C away from direct sunlight.
- Keep NovaCleanPlus standing during storage and transport.
- Avoid throwing canister during transport.

- **Packaging**

2 × 5 L

- **Shelf -life**

18 months from manufactured date

**Name: Nova pharmed chemia**

**Factory: 4<sup>nd</sup> Bustan, 4<sup>nd</sup> Golestan, West Hafez Blvd, Eshtehard, Industrial Zone, IRAN**

**Office: Fifth floor, No. 44, Saadat Abad Ave., 1998836841, Tehran, IRAN**

**Tel: +98(21)220 74001 Fax: +98(21)220 73103**