



Quality Advantage

- Perfect dialyzers reprocessing
- Economic and safe
- Absolute disinfection independent of using environments
- Convenience usage for dialyzer reprocessing
- Environmental friendly

Dosage and Administration

Hemoclean® RP is cleaner and sterilization for dialyzer reprocessing based on peracetic acid by manual or any automatic system, which accepted international quality guide.

Specification

Hemoclean® RP contains peracetic acid, hydrogen peroxide, acetic acid and additive chemicals.

Peracetic acid : 4.5%
Hydrogen proxide : 19%
Acetic acid : 10~14%

Advanced Quality

While the efficacy of "Hemoclean RP" for dialyzer reuse has been established a significant economic benefit it could also be transferred to already poor and non-affording families by cutting down the cost of disposables to 44.7% which can be much greater if the number of reuse is extended up to 30-40 times after proper patient and staff education according to internationally accepted standards

*Dr. Salamn Shakoh (Lahore, Pakistan),
WCN 2004 (World Congress of Nephrology), Berlin, Germany*

Application

Dilute Hemoclean® RP in accordance with the instructions provided by the system manufacturer for peracetic acid-based dialyzer reprocessing germicides. Usage and dilution ratio should be followed by dialyzer reprocessing system.

Disinfection Efficacy

Efficacy	Contact time
Bacteria (0.5% Hemoclean® RP)	
Echerichia coli (ATCC 25922)	5 min
Salmonella choleraesuis (ATCC 23564)	5 min
Staphylococcus aureus (ATCC 6538)	5 min
MRSA	
Klebsiella pneumoniae (ATCC 10051)	5 min
Pseudomonas aeruginosa (ATCC 9027)	5 min
Proteus mirabilis (ATCC 21100)	5 min
Bacillus subtilis (ATCC 3584)	5 min
Tuberculosis (0.5% Hemoclean® RP)	
Mycobacterium tuberculosis (H37Ra)	5 min
Mycobacterium bovis (ATCC 35721)	5 min
Fungi (0.5% Hemoclean® RP)	
Candida albicans (ATCC 10231)	5 min
Trichophyton mentagrophytes (ATCC, 9533)	5 min
Virus (0.5% Hemoclean® RP)	
Parvovirus (ATCC VR-742)	5 min
Parainfluenza virus (ATCC VR-281)	5 min
Spore (3% Hemoclean® RP)	
Bacillus subtilis (ATCC 19659)	5 min
Clostridium sporogenes (ATCC 3584)	5 min

Prepared by CCDC (Chinese Center for Disease Control and Prevention), China, 2008

Toxicology

Items	Test animals	Result
LD50 (oral)	Rat	1,540 mg/kg
LD50 (iv)	Rat	17,860 mg/kg
LD50 (inhl)	Rat	450 mg/kg
LD50 (skin)	Rabbit	1,410 mg/kg
LD50 (oral)	Rat	210 mg/kg
LD50 (oral)	Pig	10 mg/kg

Prepared by CCDC (Chinese Center for Disease Control and Prevention), China, 2008

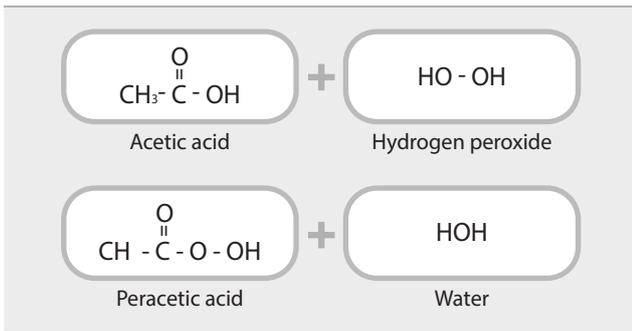
Superior Cleaning

Hemoclean® RP could remove scale CaCO₃ perfectly, which is formed for bicarbonate treatment.

Environmental friendly

Hemoclean® RP react with microorganism's protein components and dialysis metabolites, finally peracetic acid decomposed into acetic acid and oxygen, hydrogen peroxide decomposed into water and oxygen.

Acetic acid used for removing the calcium salt and oxidized by hydrogen peroxide and peracetic acid, lastly decomposed into water and carbon dioxide after being drained.



Decomposition process of Hemoclean® RP

Testing for Potential and Residual

HemoCheck Peracetic 2000 (REF NO 913 42.206796)

High range peracetic acid : 0~2,000ppm, mg/L

HemoCheck Peroxide 25 (REF NO 913 19.206796)

Residual peroxide : 0~25ppm for peroxide (H₂O₂)



1 bottle (aluminium) : 100pcs

Self life : 30months

Physical Characteristics

Colorless liquid in a white plastic container

Typical acetic odor

Non-flammability

Simply rinse after using for easily mixed with water in any proportion

pH (1% solution 20°C) : 2.4

Density (20°C) : 1.13 g/cm³

Freezing point : -15°C

Shelf-life

18 months from manufactured date

Storage

Store Hemoclean® RP at room temperature (1~30°C)

Keep out of children and avoiding direct sunlight or high temperature

Do not pour back the used, mixed Hemoclean® RP into main canister

Must keep Hemoclean® RP standing during storage and transportation

Frozen product can be used after thawing in the room

Package

5L HDPE canister with vent-filter cap (2 can/box)

1 pallet with out-carton box loads 60 canisters

Classify and Registry

Pharmaceutical (KFDA, Korea)

Medical Device Class IIb (CE, UK)



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Busan, Korea

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BIOTECHNOLOGY

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