# Kiyo-T™ Citro

**DISINFECTION AND DECALCIFICATION OF HEMODIALYSIS MACHINE**


## Composition :

| | |
|---|---|
| Citric acid I.P. | 21% w/w |
| Lactic acid I.P. | |
| Malic acid I.P. | |
| Purified water | Q.S. |

## About Kiyo-T Citro :

Kiyo-T Citro is a liquid concentrate with a single step process used to disinfect and decalcify Hemodialysis machine. It is a very effective disinfectant because of the synergistic effects of its natural ingredients.

## Mode Of Action :

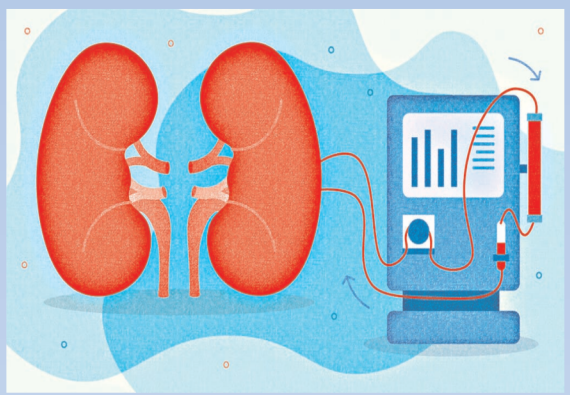
**Disinfection:**
Kiyo-T Citro works effectively by :

1. destructing the phospholipid layers in the cell membrane;
2. disturbance of the intracellular pH balance;
3. activity strongly increased by an increase in temperature, i.e at 83°C with exposure time of 15 minutes gives excellent virucidal, bactericidal, fungicidal, tuberculocidal properties.

**Decalcification:**
Formation of Ca/Mg salts or salt complexes helps in removal of calcium and magnesium deposits to reduce Hemodialysis machines breakdown.

## Salient Features :

- Disinfection
- Decalcification
- Dissolves blood residue
- Biodegradable
- Non-toxic (natural ingredients)
- **Residual disinfectant testing is not required**



## Direction for use :

1. Kiyo-T Citro should be fitted to the machine
2. Kiyo-T Citro should be heated (⩾60°C) for efficient results.
3. Ensure that power and water supply to the machine are operational.
4. Turn on the machines.
5. Important steps to be taken into consideration before activating the disinfecting program:
   (a.) The dialysate lines are connected to the shunt (Rinse bridge).
   (b.) The shunt door is closed.
   (c.) The concentrate suction tubes are in the appropriate rinse ports.
   (d.) The interlock plate of the bigbag connector (option) is closed.
   (e.) The optical detector does not sense blood.
6. Press cleaning key.
7. It is not necessary to test residual citric acid if Kiyo-T Citro is used, since it is a decaying agent which is formulated in a non-toxic solution.

* Disinfection with Kiyo-T Citro may be performed after each dialysis session or at least once daily.

## Kiyo-T Citro meets various disinfecting cycles of Hemodialysis Machine :

| Dialysis Machine Disinfecting Program | Details |
|---|---|
| Thermal disinfection | It is an auto-cycle of approx 40 min that subjects the pathway to an 80°C water temperature **After a bicarbonate dialysis, first decalcify with citric acid (Kiyo-T Citro)** |
| Chemical disinfection | Approx. 35–55 min (depending on disinfectant) decalcification with citric acid particularly following a bicarbonate dialysis can be done **Hence Kiyo-T Citro can be used as a thermochemical disinfectant.** |
| Short- term chemical disinfection | Decalcification with citric acid approx. 25–45 min (depending on disinfectant). **Also for decalcification with citric acid (Kiyo-T Citro), particularly following a bicarbonate dialysis.** |
| Decalcification | **When using citric acid (Kiyo-T Citro), for disinfection, decalcification of the dialysis machine is not required** |
| The dialysis fluid filter disinfection | The dialysis fluid filter is a fixed part of the dialysis machine for the entire duration of its use. It is cleaned and disinfected together with the dialysis machine. **Kiyo-T Citro is a suitable disinfectant (Hot disinfection)** |

## Product Specification :

| | | |
|---|---|---|
| Form | : | Liquid |
| Colour | : | Colourless |
| Odour | : | Odourless |
| pH-value | : | Acidic |
| Shelf life | : | 2 years at 5-25°C |
| Consumption | : | Approx. 82/90/96ml per cycle depending on machine model and disinfection cycle |
| Pack size | : | 5 Litres |

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