

# CITRALYSAT

## Dialysis solution for CRRT

Citralysat Dialysis solution offers healthcare professionals a calcium-free, bicarbonate buffered Continuous Renal Replacement Therapy (CRRT) fluid designed for **Continuous Veno-Venous Hemodialysis (CVVHD)**.



- Presentation in a 5 litre polypropylene bag
- Available with either 2 or 4 mmol/l potassium
- Latex and phthalate-free
- All product in clean, non-sterile overwrap
- Easily mixed before use with a double chamber system, utilising a peel-seal
- Easily connected via luer-lock
- 2 years shelf life
- Class IIb medical device

### Precautions for use:

- Do not use before mixing both chambers
- Solution is not for intravenous infusion
- Use only when fluid is clear and package undamaged
- Dialysis solution must be used only combined with citrate infusion (citrate anticoagulation)
- Dialysis calcium-free solution: a separate calcium infusion is necessary

|  | Citralysat K2<br>5000 ml | Citralysat K4<br>5000 ml |
|--|--------------------------|--------------------------|
| <b>Dialysis solution for immediate use contains:</b>                               |                          |                          |
| Sodium chloride  | 6.604 g/l                | 6.604 g/l                |
| Sodium hydrogencarbonate   | 1.680 g/l                | 1.680 g/l                |
| Potassium chloride   | 0.1491 g/l               | 0.2982 g/l               |
| Magnesium chloride hexahydrate   | 0.1525 g/l               | 0.1525 g/l               |
| Glucose monohydrate  | 1.100 g/l                | 1.100 g/l                |
| <b>Other components:</b>   |                          |                          |
| Water for injection  |                          |                          |
| Hydrochloric acid 25%  |                          |                          |
| <b>Ions and glucose concentration in the dialysis fluid for immediate use are:</b> |                          |                          |
| Na <sup>+</sup>  | 133 mmol/l               | 133 mmol/l               |
| K <sup>+</sup>   | 2.00 mmol/l              | 4.00 mmol/l              |
| Mg <sup>2+</sup>   | 0.75 mmol/l              | 0.75 mmol/l              |
| Cl <sup>-</sup>  | 116.50 mmol/l            | 118.50 mmol/l            |
| HCO <sub>3</sub> <sup>-</sup>  | 20 mmol/l                | 20 mmol/l                |
| Anhydrous glucose  | 1.0 g/l                  | 1.0 g/l                  |
| pH   | ~ 7.4                    | ~ 7.4                    |
| Theoretical osmolarity   | ≥ 278 mosmol/l           | ≥ 278 mosmol/l           |

#### Composition Citralysat K2

The smaller chamber contains 250ml of acid solution with 15mmol/l Mg<sup>2+</sup>, 40mmol/l K<sup>+</sup>, 72mmol/l Cl<sup>-</sup>, H<sup>+</sup>- with excess of 2mmol/l (corresponding to pH around 2.7) and 111 mmol/l of glucose.  
The larger chamber contains 4750 ml of solution with 140mmol/l Na<sup>+</sup>, 118.84mmol/l Cl<sup>-</sup> and 21.16mmol/l HCO<sub>3</sub><sup>-</sup>

#### Composition Citralysat K4

The smaller chamber contains 250ml of acid solution with 15mmol/l Mg<sup>2+</sup>, 80mmol/l K<sup>+</sup>, 112mmol/l Cl<sup>-</sup>, H<sup>+</sup>- with excess of 2mmol/l (corresponding to pH around 2.7) and 111 mmol/l of glucose.  
The larger chamber contains 4750 ml of solution with 140mmol/l Na<sup>+</sup>, 118.84mmol/l Cl<sup>-</sup> and 21.16mmol/l HCO<sub>3</sub><sup>-</sup>

# NATRIUM CITRICUM

## Trisodium citrate for use in CRRT



Natrium Citricum provides healthcare professionals a trisodium citrate solution for use in CRRT.

- Sterile solution of trisodium citrate in a single chamber 2 litre polypropylene bag, enabling less frequent bag changes for the end user
- Available in 4% concentration
- Easily connected via luer-lock spike
- Latex and phthalate-free
- Class IIb medical device

### Precautions for use:

- Not to be administered intravenously
- Not to be used unless the solution is clear
- Check the bag and connection tubing before use
- Solution shall not be used if the container or outlet safety lock has been tampered

### Composition:

- One litre of the solution contains trisodium citrate dihydrate Ph. Eur. 40g (4% w/v) (pH is adjusted with citric acid monohydrate Ph. Eur.)
- Water for injection Ph. Eur. ad 1000ml
- pH 6.4-7.5

|  | <b>Natrium Citricum</b><br>Trisodium citrate<br>Sodium Citrate 4% |
|--|---|
| Nikkiso Product code                                       |   |
| <b>Composition in mmol/l units:</b>                        |   |
| Natrii citras  | 136 mmol/l  |
| Na <sup>+</sup>  | 408 mmol/l  |
| C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> <sup>3-</sup> | 138.4 mmol/l  |
| Theoretical osmolality                                     | 554 mosmol/l  |