multi(**P)IUS** K⁺ 2 mmol/L

Instructions for use

Intended use

multiPlus is a dialysis solution for continuous veno-venous haemodialysis (CWHD). multiPlus has to be used on a machine intended for CVVHD treatment that ensures volume balance compliance.

Contraindications

- Dialysis solution should not be used on patients with hyperphosphataemia.
- multiPlus must not be infused intravenously or into the extracorporeal circuit

Composition

multiPlus is supplied as a double chamber bag with a total volume of 5,000 mL. The ready-to-use dialysis fluid is obtained by mixing both compartments immediately prior to the application. The small compartment contains 250 mL of a solution (with a pH of about 2.7) with 30 mmol/L Ca++, 15 mmol/L Mg++, 20 mmol/L K+, 112 mmol/L Cl⁻ and 111 mmol/L glucose. The large compartment contains 4750 mL of a solution with 147.37 mmol/L Na+, 1.053 mmol/L K+, 110.42 mmol/L Cl-, 36.95 mmol/L HCO3⁻ and 1.053 mmol/L H2PO4⁻.

The ready-to-use dialysis solution contains:

Sodium chloride	6.136	g/L	
Sodium bicarbonate	2.940	g/L	
Potassium dihydrogen phosphate	0.1361	g/L	
Potassium chloride	0.07455	g/L	
Calcium chloride dihydrate	0.2205	g/L	
Magnesium chloride hexahydrate	0.1525	g/L	
Glucose monohydrate	1.100	g/L	

Other constituents: Water for injektion, hydrochloric acid 25%

The concentrations of the ions a to-use dialysis fluid are:	and of glucos	e in the rea
Na ⁺	140	pro-VI.
K+	2.0	mmon
Ca++	1.5	mmol
Mg ⁺⁺	0.75	mp
Cl	110.5	nol/L
HCO3-	35	n ol/L
H ₂ PO ₄	1.0	mme
Glucose, anhydrous	1.0	g/L
pH ≈	7.4	
theoretical osmolarity	296	mOsm/L

Handling

For convenient handling the bag should be at room temperature.

Opening of the overwrapping

The double-chamber bag containing the dialysis solution must only be taken out of its overwrapping immediately prior to use. Before opening, the overwrapping must be checked for damage. Bags with damaged overwrapping should be discarded

Mixing of both compartments

Both compartments must be mixed immediately prior to the use of the dialysis solution.

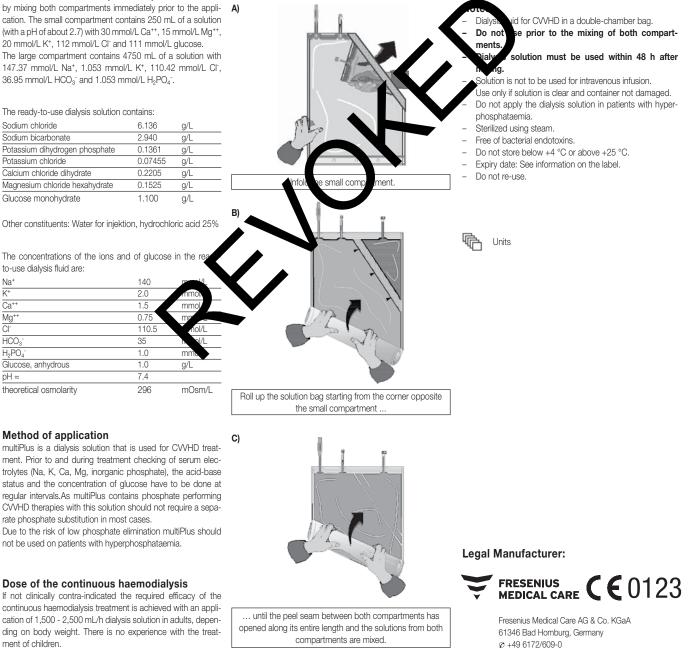
After mixing both compartments, it must be checked, that the peel seam is completely open, that the solution is clear and colourless and that the bag is not leaking.

multiPlus must be used within 48 h after mixing.

Connection of the bag to the extracorporeal circuit

After mixing both compartments, the bag with the dialysis solution is connected to the dialysate circuit according to the instructions for use of the chosen device for continuous renal replacement therapy. Contamination of the dialysis solution or of any parts in contact with the dialysis solution must be avoided. A bag of multiPlus, which has been disconnected from the dialysate circuit, should be discarded.

Prior to application, multiPlus should be warmed to approximately body temperature to prevent any significant drop in the patient's body temperature.



ment of children.

Method of application