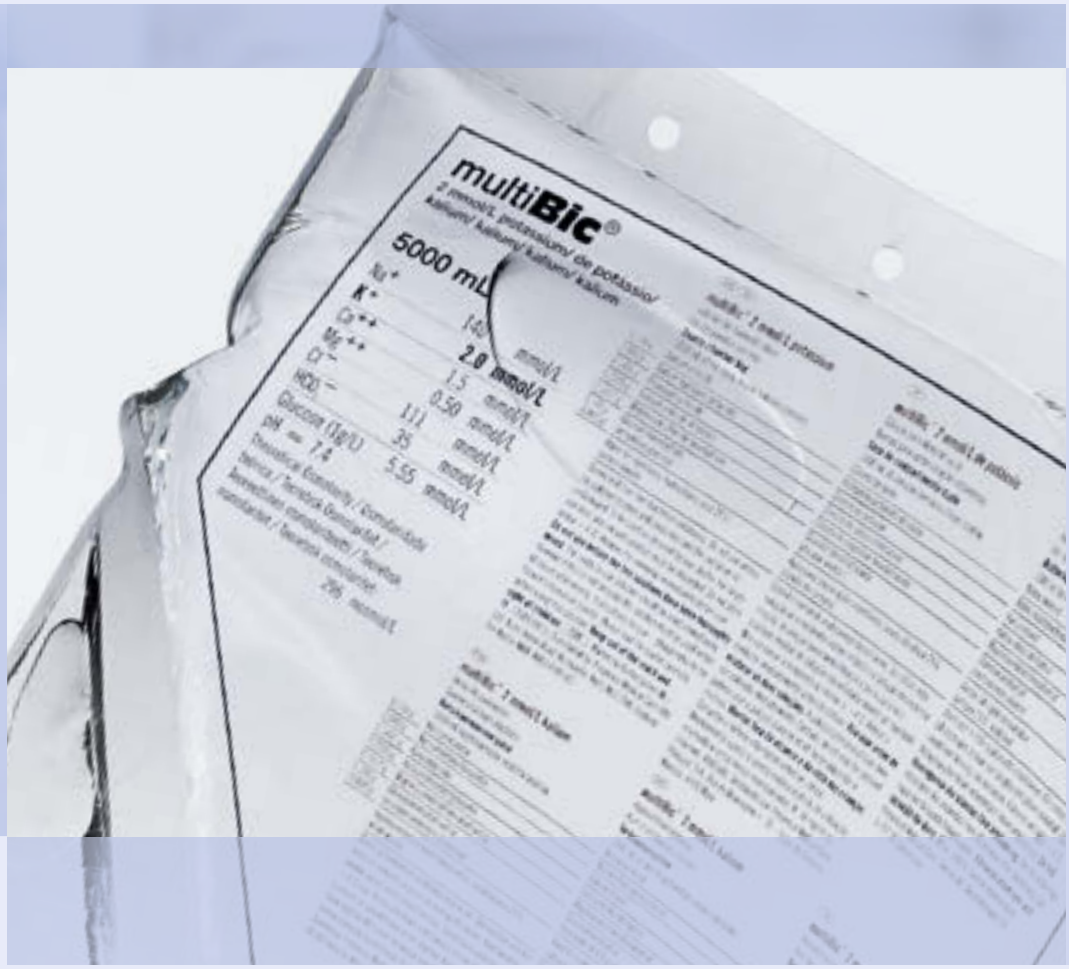
Acute Therapy Systems

The 5 Litre multi**Bic**®**:**
Always the right solution



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Sophisticated and convenient: The multiBic® 5 L has many advantages.

When time is of the essence, every convenience helps. For example, the multiBic® double chamber bag with diagonal peel seam for simple handling. The sophisticated gas barrier helps to keep the ready-to-use bicarbonate solution stable and makes possible that the infusion to the patient can last up to 48 hours.

Amongst others, an additional advantage of the 5 Litre multiBic® is the outer packaging with integrated handle for quick and easy transport to the place of use. The Biofine foil is environmentally friendly and allows a quiet and a non-disturbing unpackage of bags. The connection ports for all the common connectors, together with the injection port for additional medication are further benefits of the 5 Litre multiBic®.

The 5 Litre multiBic® at a glance:

> **Mixing the two components provides**	100 % bicarbonate-buffered haemofiltration solution
> **Always the right solution**	thanks to 4 different potassium concentrations
> **Increased solution stability, usable for up to 48 hrs.**	thanks to the sophisticated gas barrier
> **Simple handling**	thanks to the bag geometry with its diagonal peel seam
> **PVC, latex and DEHP-free, environmentally friendly**	thanks to the use of “Biofine” material
> **Quiet unpacking of bags**	thanks to the packaging’s softer, sound-reduced foil
> **Easy monitoring**	through the clear, transparent foil
> **Convenient transport**	thanks to the new, comfortable handle
> **Suitable for almost all common CRRT devices**	thanks to the bag eyelets and connectors
> **Addition of medication possible**	thanks to the injection port

*1) Open the outer packaging of the multi**Bic**® solution bag at the prepared tag near the blue connector …*

2) … and remove the solution bag.

3) Unfold the small compartment and …

*4) … roll up the multi**Bic**® solution bag, starting at the corner opposite the small compartment …*

5) … until the peel seam between the two compartments is open along its entire length and both solution components are mixed.

6) The result is the ready-to-use 100 % bicarbonate-buffered haemofiltration solution.

Result: the prepared multiBic® solution is ready to use within seconds.

Order information	**Language/Art. No.**					
Name **multiBic®**	**D, A, CH/ NL/F/I** **2 x 5 L**	**GB, M/P/S/ FIN/DK/N** **2 x 5 L**	**E/TR/CZ/ H/PL/LT** **2 x 5 L**	**EST/LV/SK/ SLO/GR, CY** **2 x 5 L**	**RO/HR/BiH/ SRB/(GB)** **2 x 5 L**	**RUS/ B (D, NL, F)** **2 x 5 L**
potassium-free	967 820 1	F00 001 138	F00 001 142	F00 001 146	F00 001 134	F00 001 300
2 mmol/L potassium	967 920 1	F00 001 139	F00 001 143	F00 001 147	F00 001 135	F00 001 301
3 mmol/L potassium	967 220 1	F00 001 140	F00 001 144	F00 001 148	F00 001 136	F00 001 302
4 mmol/L potassium	967 320 1	F00 001 141	F00 001 145	F00 001 149	F00 001 137	F00 001 303

Packaging: 5 Litre bag, 2 bags per box, 104 bags per pallet
Technical changes reserved.
Not all potassium concentrations of multi**Bic**® potassium-free/2, 3, 4 mmol/L are approved/available in the countries mentioned.

Base solution **4.75 L**
Electrolyte solution **0.25 L**
> **Double chamber bag with peel seam**

Solutions must be mixed before use.

Abbreviated product information

multiBic® potassium-free, Solution for Haemofiltration
multiBic® 3 mmol/L potassium, Solution for Haemofiltration
multiBic® 2 mmol/L potassium, Solution for Haemofiltration
multiBic® 4 mmol/L potassium, Solution for Haemofiltration

multiBic® potassium-free/2/3/4 mmol/L potassium is delivered in a double-chamber bag. One chamber (large compartment) contains the alkaline hydrogen carbonate solution, the other chamber (small compartment) contains the acidic glucose-based electrolyte solution. Mixing of both solutions by opening the peel seam between the two chambers results in the ready-to-use solution.

Composition: 1000 mL of the ready-to-use solution contain:

Active substances in [g/L]:	multiBic® **potassium-free**	multiBic® **2 mmol/L potassium**	multiBic® **3 mmol/L potassium**	multiBic® **4 mmol/L potassium**
Sodium chloride	6.136	6.136	6.136	6.136
Potassium chloride	–	0.1491	0.2237	0.2982
Sodium hydrogen carbonate	2.940	2.940	2.940	2.940
Calcium chloride dihydrate	0.2205	0.2205	0.2205	0.2205
Magnesium chloride hexahydrate	0.1017	0.1017	0.1017	0.1017
Glucose monohydrate = equivalent to glucose	1.100 1.000	1.100 1.000	1.100 1.000	1.100 1.000

1000 mL of the ready-to-use solution contain:

Active substances in [mmol/L]:	multiBic® **potassium-free**	multiBic® **2 mmol/L potassium**	multiBic® **3 mmol/L potassium**	multiBic® **4 mmol/L potassium**
Na^+	140	140	140	140
K^+	–	2.0	3.0	4.0
Ca^{++}	1.5	1.5	1.5	1.5
Mg^{++}	0.50	0.50	0.50	0.50
Cl^-	109	111	112	113
HCO_3^-	35	35	35	35
Glucose	5.55	5.55	5.55	5.55
Theoretical osmolarity [mosm/L]	292	296	298	300
pH ≈ 7.2				

Excipients: Water for injections, hydrochloric acid (25 %), carbon dioxide.

Indications: For use in patients with acute renal failure requiring continuous haemofiltration.

Contraindications: Solution dependent contraindications: multiBic® potassium-free/2/3 mmol/L potassium: hypokalaemia, metabolic alkalosis; multiBic® 4 mmol/L potassium: hyperkalaemia, metabolic alkalosis; Haemofiltration dependent contraindications due to the technical procedure itself: Renal failure with increased hypercatabolism in cases where uraemic symptoms can no longer be relieved by haemofiltration; Inadequate blood flow from vascular access; If there is a high risk of haemorrhage on account of systemic anticoagulation.

Side effects: Adverse reactions, such as nausea, vomiting, muscle cramps, hypotension and hypertension, may result from the treatment mode itself or may be induced by the substitution solution. In general, the tolerability of bicarbonate buffered haemofiltration solution is good. However, the following potential side effects of the treatment can be anticipated: Hyper- or hypohydration, electrolyte disturbances (e. g. hypokalaemia), hypophosphataemia, hyperglycaemia, and metabolic alkalosis.

Warnings and Precautions: Do not use unless solution is clear and the container is undamaged. Do not use before the two solutions have been mixed. The ready-to-use solution shall be used immediately, not be stored above +25 °C and must be used within a maximum of 48 hours after mixing. Any unused residual solution should be discarded. Do not store below +4 °C.

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