

Gambro

softpac citrate

The Gambro **SoftPac Citrate** is an acetate-free concentrate with all the beneficial properties of citrate. The PVC free **SoftPac Citrate** concentrate is available in two sizes, a 3.5L and 5L bag.

- Improved tolerance to treatment*^{1,2,3,4,5,6,7,8}
- Improved acid-base status*^{1,9}
- Less thrombogenic dialysis*^{1,10,11}



* Disclaimer: compared to concentrate containing acetate.

Gambro SoftPac Citrate

SPECIFICATIONS	SoftPac Citrate C 3.5L DILUTION 1+44	SoftPac Citrate G 5L DILUTION 1+44
Description	The SoftPac Citrate product is a citrate based acid concentrate used together with the Gambro BiCart cartridge	
Bag material	Polyolefin medical grade	Polyolefin medical grade
Content of bag	3.5L of acid-based concentrate to be diluted 1+44 (1:45) dilution	5L of acid-based concentrate to be diluted 1+44 (1:45) dilution
Intended use	For on-line preparation of hemodialysis, hemodiafiltration or hemofiltration fluids on compatible Gambro dialysis machines	
Packaging	Cardboard box with three 3.5L bags	Cardboard box with two 5L bags
Box size	H 210 mm x L 333 mm x W 254 mm	H 198 mm x L 333 mm x W 254 mm
Weight of the box	Approximately 13.2 kg	Approximately 12.7 kg
Shelf life	12 months	12 months
Storage method	Store between +4°C and +30°C. Protect from direct sunlight and do not remove the cap before usage	

CAPACITY		
Bag Volume	3.5L	5L
Dilution ratio	1+44	1+44
Volume of dialysis fluid when mixed	157L	225L
Duration time at 500 ml/min	5H15	7H30

Ready to use solution of the **SoftPac Citrate** concentrates

SoftPac Citrate C 3.5L		SoftPac Citrate G 5L		ELECTROLYTE CONCENTRATION AFTER DILUTION TOGETHER WITH BiCart CARTRIDGE							
PRODUCT CODE	PRODUCT NAME	PRODUCT CODE	PRODUCT NAME	Na ⁺ mmol/l	HCO ₃ ⁻ mmol/l	K ⁺ mmol/l	Ca ^{2+*} mmol/l	Mg ²⁺ mmol/l	Cl ⁻ mmol/l	Citrate mmol/l	Glucose g/l
115753	SOFTPAC CITRATE C140			140	34	1.0	1.41	0.5	107.8	1.0	5.6
115754	SOFTPAC CITRATE C150	115824	SOFTPAC CITRATE G150	140	34	1.0	1.51	0.5	108.0	1.0	5.6
115755	SOFTPAC CITRATE C165	115825	SOFTPAC CITRATE G165	140	34	1.0	1.66	0.5	108.3	1.0	5.6
115756	SOFTPAC CITRATE C1540	115826	SOFTPAC CITRATE G1540	140	34	1.5	1.41	0.5	108.3	1.0	5.6
115757	SOFTPAC CITRATE C1550	115827	SOFTPAC CITRATE G1550	140	34	1.5	1.51	0.5	108.5	1.0	5.6
115758	SOFTPAC CITRATE C1565	115828	SOFTPAC CITRATE G1565	140	34	1.5	1.66	0.5	108.8	1.0	5.6
115759	SOFTPAC CITRATE C1575	115782	SOFTPAC CITRATE G1575	140	34	1.5	1.76	0.5	109.0	1.0	5.6
115760	SOFTPAC CITRATE C240	115783	SOFTPAC CITRATE G240	140	34	2.0	1.41	0.5	108.8	1.0	5.6
115761	SOFTPAC CITRATE C250	115784	SOFTPAC CITRATE G250	140	34	2.0	1.51	0.5	109.0	1.0	5.6
115762	SOFTPAC CITRATE C265	115785	SOFTPAC CITRATE G265	140	34	2.0	1.66	0.5	109.3	1.0	5.6
115763	SOFTPAC CITRATE C275	115786	SOFTPAC CITRATE G275	140	34	2.0	1.76	0.5	109.5	1.0	5.6
115764	SOFTPAC CITRATE C2540			140	34	2.5	1.41	0.5	109.3	1.0	5.6
115765	SOFTPAC CITRATE C2550			140	34	2.5	1.51	0.5	109.5	1.0	5.6
115766	SOFTPAC CITRATE C2565	115787	SOFTPAC CITRATE G2565	140	34	2.5	1.66	0.5	109.8	1.0	5.6
115767	SOFTPAC CITRATE C340	115788	SOFTPAC CITRATE G340	140	34	3.0	1.41	0.5	109.8	1.0	5.6
115768	SOFTPAC CITRATE C350	115789	SOFTPAC CITRATE G350	140	34	3.0	1.51	0.5	110.0	1.0	5.6
115769	SOFTPAC CITRATE C365	115790	SOFTPAC CITRATE G365	140	34	3.0	1.66	0.5	110.3	1.0	5.6
115770	SOFTPAC CITRATE C375	115791	SOFTPAC CITRATE G375	140	34	3.0	1.76	0.5	110.5	1.0	5.6
115771	SOFTPAC CITRATE C3540	115792	SOFTPAC CITRATE G3540	140	34	3.5	1.41	0.5	110.3	1.0	5.6
115772	SOFTPAC CITRATE C3550			140	34	3.5	1.51	0.5	110.5	1.0	5.6
115773	SOFTPAC CITRATE C3565			140	34	3.5	1.66	0.5	110.8	1.0	5.6
115774	SOFTPAC CITRATE C450			140	34	4.0	1.51	0.5	111.0	1.0	5.6
115775	SOFTPAC CITRATE C465			140	34	4.0	1.66	0.5	111.3	1.0	5.6
115776	SOFTPAC CITRATE C2040	115793	SOFTPAC CITRATE G2040	140	34	2.0	1.41	0.5	108.8	1.0	0.0
115777	SOFTPAC CITRATE C2050	115794	SOFTPAC CITRATE G2050	140	34	2.0	1.51	0.5	109.0	1.0	0.0
115778	SOFTPAC CITRATE C2065	115795	SOFTPAC CITRATE G2065	140	34	2.0	1.66	0.5	109.3	1.0	0.0
115779	SOFTPAC CITRATE C2075	115796	SOFTPAC CITRATE G2075	140	34	2.0	1.76	0.5	109.5	1.0	0.0
115780	SOFTPAC CITRATE C3050	115797	SOFTPAC CITRATE G3050	140	34	3.0	1.51	0.5	110.0	1.0	0.0
115781	SOFTPAC CITRATE C3065	115798	SOFTPAC CITRATE G3065	140	34	3.0	1.66	0.5	110.3	1.0	0.0

* In **SoftPac Citrate** pH is adjusted to make the concentrate less acidic. This adjustment results in a minute change in final electrolyte levels but this has no clinical impact.

These specifications are subject to change without notice. For further information and operating instructions please refer to the operator manual. The **SoftPac Citrate** concentrate is compatible with Gambro dialysis machines.

CE 0086 The products meet the applicable provisions of Annex I (Essential Requirements) and Annex II (Full quality assurance system of the Council Directive 93/42/EEC of 14 June 1993 concerning medical devices.

1. Grundström G, Christensson A, Alquist M et al. Replacement of acetate with citrate in dialysis fluid: a randomized clinical trial of short term safety and fluid biocompatibility. *BMC Nephrology* 2013; 14:216. **2.** Bryland A, Wieslander A, Carlsson O et al. Citrate treatment reduces endothelial death and inflammation under hyperglycaemic conditions. *Diab Vasc Dis Res* 2012;9(1):42-51. **3.** Huang S, Sandholm K, Jonsson N et al. Low concentrations of citrate reduce complement and granulocyte activation in vitro in human blood. *Clin Kidney J* (2014) 0: 1-7. **4.** Guido G, Loiacono E, Serriello I et al. Citrate-based dialysis buffers are more biocompatible in comparison to standard bicarbonate buffers and could prevent the progression of dialysis vasculopathy. *Nephrol Dial Transplant* 2013;28 (suppl1):i490. **5.** Sjöberg B, Qureshi AR, Anderstam B et al. Pentraxin 3, a sensitive early marker of hemodialysis-induced inflammation. *Blood Purif* 2012;34(3-4):290-7. **6.** Matsuyama K, Tomo T, Kadota J. Acetate-free blood purification can impact improved nutritional status in hemodialysis patients. *J Artif Organs* 2011;14(2):112-9. **7.** Daimon S, Dan K, Kawano M. Comparison of acetate-free citrate hemodialysis and bicarbonate hemodialysis regarding the effect of intra-dialysis hypotension and post-dialysis malaise. *Ther Apher Dial* 2011;15(5):460-5. **8.** Amore A, Cirina P, Bonaudo R et al. Bicarbonate dialysis, unlike acetate-free biofiltration, triggers mediators of inflammation and apoptosis in endothelial and smooth muscle cells. *J Nephrol* 2006;19(1):57-64. **9.** Kuragano T, Kida A, Furuta M et al. Effects of acetate-free citrate-containing dialysate on metabolic acidosis, anemia, and malnutrition in hemodialysis patients. *Artif Organs* 2012;36(3):282-90. **10.** Sands JJ, Kotanko P, Segal JH et al. Effects of citrate acid concentrate on heparin N requirements and hemodialysis adequacy: a multicenter, prospective noninferiority trial. *Blood Purif* 2012;33(1-3):199-204. **11.** Kossmann RJ, Gonzales A, Callan R, Ahmad S. Increased efficiency of hemodialysis with citrate dialysate: a prospective controlled study. *Clin J Am Soc Nephrol* 2009;4(9):1459-64.

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