

Title (en)  
SYSTEM FOR BICARBONATE DIALYSATE.

Title (de)  
HERSTELLUNG EINES BICARBONATDIALYSATES.

Title (fr)  
SYSTEME DE PRODUCTION DE DIALYSAT DE BICARBONATE.

Publication  
**EP 0051659 A4 19821108 (EN)**

Application  
**EP 81901432 A 19810421**

Priority  
• US 14820080 A 19800509  
• US 20974280 A 19801124

Abstract (en)  
[origin: WO8103180A1] A dialysate solution containing bicarbonate ion in which the bicarbonate ion is generated in a flowing stream prior to dialysis by combining an aqueous sodium carbonate-containing stream produced from a bacteriostatic concentrate with an aqueous stream containing hydrochloric acid, acetic acid or a mixture of these acids in two stages with an excess of acid in the first stage. The bicarbonate ion can be generated using a proportioning system in which the conductivity as well as the hydrogen ion activity of the resulting bicarbonate-containing dialysate is monitored. The acid can be provided in a unit dosage form of aqueous concentrate additionally containing chloride ion in a concentration of about 3.5 Molar to about 4.7 Molar, sodium ion in a concentration of about 1.9 Molar to about 2.7 Molar, and dextrose in a concentration of about 0 Molar to about 0.4 Molar. Additionally, the acid concentrate may contain acetate group in a concentration of up to about 0.525 Molar, calcium ion in a concentration of up to about 0.125 Molar, potassium ion in a concentration of up to about 0.14 Molar, and magnesium ion in a concentration of up to about 0.09 Molar. The sodium carbonate containing stream can be generated by diluting an aqueous concentrate comprising at least about 20 grams of sodium carbonate, calculated as anhydrous sodium carbonate, per liter of solution.

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