Claims

1. A sorbent for removing metabolic waste products from a dialysis liquid, wherein the sorbent comprises a homogeneous mixture of: (a) uremic toxin-treating enzyme particles comprising a uremic toxin-treating enzyme immobilized on a solid support that hydrolyses urea to ammonium and bicarbonate ions; (b) cation exchange particles set to a pH range of from 3.5 to 5.0, wherein the cation exchange particles are configured to bind ammonium ions in exchange for protons, and bind calcium, magnesium, and/or potassium ions in exchange for sodium ions; (c) anion exchange particles; and (d) a soluble source of sodium ions.

2. The sorbent according to claim 1, wherein the sorbent is contained within a cartridge.

3. The sorbent as claimed in claim 1, wherein the soluble source of sodium ions is a soluble salt.

4. The sorbent as claimed in claim 3, wherein the soluble salt is a basic salt.

5. The sorbent as claimed in claim 4, wherein the soluble salt is selected from one or more of the group consisting of sodium carbonate, sodium bicarbonate and sodium hydroxide.

6. The sorbent as claimed in claim 1, wherein said cation exchange particles are set to a pH of 4.5.

7. The sorbent as claimed in claim 1, wherein said cation exchange particles comprise an amorphous, water-insoluble metal phosphate in protonated form.

8. The sorbent as claimed in claim 1, wherein said anion exchange particles comprise an amorphous and partly hydrated, water-insoluble metal oxide in its hydroxide-, carbonate-, acetate-, and/or lactate-counter-ion form, wherein the metal is selected from the group consisting of titanium, zirconium, hafnium and combinations thereof.