Claims

1. Use of a particulate porous material to adsorb beta-2 microglobulin, said particulate porous material comprising a crosslinked polymeric matrix including a first set of constitutional units formed from ethylene glycol dimethacrylate monomers

wherein:

the particulate porous material comprises a plurality of pores having a pore diameter of from 1.6 nm to 50 nm;

the particulate porous material has a porosity of at least 3% (v/v) and a single point total pore volume of at least 0.15 cm^3/g; and

wherein the crosslinked polymeric matrix is a homopolymer consisting of the first set of constitutional units or the crosslinked polymeric matrix is a copolymer consisting of the first set of constitutional units and up to 30 mol % of a second set of constitutional units formed from a hydrophilic monomer.

2. The use according to Claim 1, wherein:

(a) the particulate porous material has a Brunauer-Emmett-Teller adsorption average pore size of from 3 to 15 nm, such as from 3.5 to 10 nm (e.g. 3.6 to 9.4 nm); and/or

(b) the particulate porous material has a porosity of at least 6% (v/v) and a single point total pore volume of at least 0.3 cm^3/g.

3. The use according to Claim 1 or 2, wherein: (a) the hydrophilic monomer is selected from one or more of the group consisting of itaconic acid, 2-(trifluoromethyl)acrylic acid, and allylurea, and/or

(b) the second set of constitutional units are present in an amount of from 2 to 25 mol % of the crosslinked polymeric matrix.

4. The use according to any one of the preceding claims, wherein the particulate porous material has a porosity of from 8 to 30% (v/v), such as from 10 to 28% (v/v) (e.g. from 14 to 24% (v/v)).

5. The use according to any one of the preceding claims, wherein the particulate porous material has a single point total pore volume of from 0.36 to 0.85 cm^3/g, such as from 0.4 to 0.8 cm^3/g (e.g. from 0.45 to 0.75 cm^3/g).

6. The use according to any one of the preceding claims, wherein the particulate porous material has a porosity of from 8 to 30% (v/v) and a single point total pore volume of from 0.36 to 0.85 cm^3/g;

optionally a porosity of from 10 to 28% (v/v) and a single point total pore volume of from 0.4 to 0.8 cm^3/g.

7. The use according to any one of the preceding claims, wherein the particulate porous material comprises a plurality of pores having a pore diameter of from 1.6 nm to 10 nm.

8. The use according to any one of the preceding claims, wherein the particulate porous material has a nitrogen adsorption isotherm that is Type II or Type IV.

9. The use according to any one of the preceding claims, wherein the particulate porous material has a D50 of less than 200 μm.

10. The use according to any one of the preceding claims, wherein the particulate porous material is contained within a sorbent cartridge.

11. The use according Claim 10, wherein the sorbent cartridge further contains one or more of:

cation exchange particles (e.g. zirconium phosphate);

anion exchange particles (e.g. hydrous zirconium oxide);

activated carbon;

a buffer (e.g. calcium carbonate); and

a urease.