NON-PATENT DOCUMENT

[0009]

Non-Patent Document 1: Annals of the New York Academy of Sciences 2005. Vol. 1051 p. 635-646

Non-Patent Document 2: American Heart Journal Vol. 152, Number 4 2006

Non-Patent Document 3: Journal of Chromatography, 195 (1980) 221-230

Non-Patent Document 4: Journal of Chromatography A, 1217 (2010) 1298-1304

DISCLOSURE OF THE INVENTION

PROBLEM TO BE SOLVED BY THE INVENTION

[0010]

The objective of the present invention is to provide a convenient method for producing porous cellulose beads having high mechanical strength without using an auxiliary material which is highly toxic and corrosive and without a cumbersome and industrially adverse step.

[0010a]

In one aspect, there is provided a method for producing porous cellulose beads, comprising the steps of: mixing a cold alkaline aqueous solution and cellulose to prepare a cellulose dispersion; and bringing the cellulose dispersion into contact with a coagulating solvent.

[0010b]

In another aspect, there is provided a method for producing crosslinked porous cellulose beads, comprising the step of crosslinking the porous cellulose beads obtained by the method as defined herein.

MEANS FOR SOLVING THE PROBLEMS

[0011]

The present inventors have conducted intensive studies to solve the above problem. In detail, it was the first problem how to dissolve cellulose, which is difficult to be dissolved in a low toxic and inexpensive solvent, in a conventional production of porous cellulose beads. At first, the present inventors also researched the condition for dissolving cellulose in the above-described solvent without difficulty. However, the present inventor completed the present invention by finding that porous cellulose beads can be successfully produced even from a cellulose dispersion without using a cellulose solution.

[0012]