

s 2022 0054

The invention relates to nanotechnology and medicine, in particular to a process for producing materials based on silver nano-particles stabilized with cellulose derivatives with antibacterial activity.

Summary of the invention consists in that is prepared a silver nitrate solution with a concentration of 0.01 M by dissolving it in bidistilled water or dimethyl sulfoxide, it is also prepared a solution with a concentration of 1% of a cellulose derivative in bidistilled water or dimethyl sulfoxide, then to the solution with cellulose derivative is added silver nitrate solution in a volume ratio of 4:1, which is continuously stirred for 2 hours, at room temperature. As cellulose derivative is used hydroxypropylcellulose, methylcellulose, ethylcellulose or cellulose acetate.

Claims: 2

Fig.: 2