a 2019 0037

The invention relates to the field of biochemistry and medicine, in particular to a process for producing a polymer material with antioxidant properties from chitosan copolymer with quercetin, and can be used in the field of medicine, pharmaceutics.
The process for quercetin grafting to chitosan copolymer with maleic anhydride involves mixing of chitosan and maleic anhydride in a molar ratio of 1:1 dissolved in dimethylformamide, processing of the resulting solution with ethyl chloroformate at a temperature of 0-5°C in the presence of triethylamine, addition of quercetin solution in dimethylformamide in the amount ensuring obtaining of quercetin concentration in the copolymer of 10-50 mol%, maintaining at room temperature, decantation and evaporation of the solvent.

Claims: 1
Fig.: 1