

Title (en)
COLLOIDAL SUSPENSION OF SUBMICRONIC PARTICLES FOR CARRYING HYDROPHILIC ACTIVE PRINCIPLES (INSULIN) AND METHOD FOR PREPARING SAME

Title (de)
KOLLOIDALE SUSPENSION SUBMIKRONISCHER TEILCHEN DER VEKTORISATION AKTIVER HYDROPHILER PRINZIPIEN (INSULIN) UND DEREN HERSTELLUNG

Title (fr)
SUSPENSION COLLOIDALE DE PARTICULES SUBMICRONIQUES DE VECTORISATION DE PRINCIPES ACTIFS HYDROPHILES (INSULINE) ET LEUR MODE DE PREPARATION

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Abstract (en)
[origin: WO0228374A1] The invention concerns a suspension of particles for carrying hydrophilic active principles (insulin). Said carrier particles are based on a polyethylene glycol/hydrophobic neutral polyminoacid double-block polymer. Said polyethylene glycol/hydrophobic neutral polyaminoacid particles are associated with a hydrophilic active principle (insulin). The invention also concerns, a powdery solid from which the transporting particles are derived and the preparation of said solid and said suspension of transporting particles based on polyethylene glycol/hydrophobic neutral polyminoacid particles and insulin. Said preparation consists in copolymerising N-carboxy-anhydrides of hydrophobic neutral polyminoacid particles, in the presence of N-methylpyrrolidone, methanol, and amine-functionalised polyethylene glycol, thereby obtaining polyethylene glycol/hydrophobic neutral polyaminoacids, associating the latter with insulin; precipitating with water so as to obtain the carrier particles; optionally carrying out neutralisation, dialysis, concentration and elimination of water, thereby producing a powdery solid or suspended carrier particles and preparing pharmaceutical specialties.

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