

Title (en)

SOL-GEL DERIVED SILICA POLYMERS FOR THE SUSTAINED RELEASE OF PROTEINS

Title (de)

NACH DEM SOL-GEL-VERFAHREN HERGESTELLTE SILICIUMDIOXIDPOLYMERE ZUR GLEICHMÄSSIG HINHALTENDEN FREISETZUNG VON PROTEINEN

Title (fr)

POLYMÈRES DE SILICE DÉRIVÉS DE SOL-GEL POUR LA LIBÉRATION PROLONGÉE DE PROTÉINES

Publication

EP 2004727 A1 20081224 (EN)

Application

EP 07712309 A 20070223

Priority

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Abstract (en)

[origin: WO2007115860A1] The use of wet silica based polymers obtained by the sol-gel technology for the entrapment and sustained release of macromolecular bioactive compounds and, more specifically, proteins with pharmaceutical applications, is disclosed. The wet-gel formulations are obtained by a method which comprises mixing an alkoxysilane solution, a gelling catalyst and a buffered water solution of a biologically active principle and subsequently casting the thus-obtained mixture into suitable containers without previous or subsequent partial or complete removal of the water solvent; the containers are then sealed after casting in order to preserve the wet state of the gel. The wet-gel formulations may then be used for the manufacture of a ready-to-use injectable solution by mixing the silica wet-gel formulation with water or with a physiological water solution.

IPC 8 full level

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