

Title (en)

MAGNETIC NANODISPERSION COMPRISING CYCLODEXTRINES AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

MAGNETISCHE NANODISPERSION MIT CYCLODEXTRINEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

NANODISPERSION MAGNETIQUE COMPRENANT DES CYCLODEXTRINES ET PROCEDES POUR LA PRODUIRE

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Application

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Abstract (en)

[origin: WO03035113A1] The invention relates to a magnetic dispersion based on water and/or dispersing agents mixable with water and nanoparticles dispersed and stabilized therein. The invention also relates to a method for the production of said magnetic dispersion. The invention has the aim of providing a magnetic dispersion having high saturation polarization with greater biocompatibility, the magnetic particles of said dispersion being suitable as transport vehicles for other pharmacologically and biologically active substances and a method for the production of said magnetic dispersion. According to the invention, the magnetic nanoparticles consist of magnetic core particles and an envelope of general formula $M[Ap,C,Bq]$, wherein M are core particles, A are reactive groups, B are bioactive groups and C is cyclodextrine, consisting of 1,4-linked glucose units $(C_6H_7O_5)_m[(3H)m-(p+q)]$, wherein $m = 6$ to 12 , p is the number of A groups 1 to $3m$ and q is the number of B groups $3m-p$.

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