

Non-covalently corona-crosslinked polymeric micelles (Technion)

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Polymeric micelles are a valuable nanotechnology for delivery of poorly water-soluble drugs. In this invention a novel kind of polymeric micelle has been developed formed by the self-assembly of graft copolymers synthesized by the hydrophobization of synthetic. These novel nanocarriers combine the advantages of the polymeric micelles in terms of drug encapsulation capacity with the higher physical stability of the nanogels that do not compromise the integrity of the encapsulated drug or the encapsulation capacity. The crosslinking will also lead to the formation of rate-controlling gel membrane on the surface that will control the drug release kinetics.

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