ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

Biodegradable nanocarrier for drug delivery

INVENTORS

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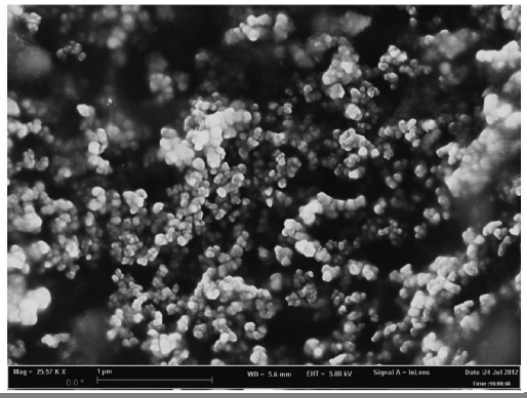
DESCRIPTION

The invention relates to a block-made copolymer consisting of two blocks S1 and S2, where S1 is constituted by m(PEG)n where n is an integer between 4 and 50, and S2 is a random copolymer consisting of the monomeric units R1 and R2 where R1 is the monomer unit corresponding to the monomer g-valerolattone and R2 the monomer unit corresponding to the monomer selected from the group consisting e-caprolattone, δ-valerolattone, β-butirrolattone, ε-caprolattame, δ-valerolattame. Is also provided a method for its preparation, its use and a pharmaceutical composition comprising the same.



APPLICATIONS

Drug delivery, biodegradable nanocarriers

KEYWORDS

Methoxy(polyethyleneglycol)-b-poly(ε-caprolactone-rand-γ-valerolactone) synthesis, lactone copolymerization, biodegradable nanocarriers, nanomedicine, controlled drug delivery systems, nanoparticles

BIBLIOGRAPHIC DATA

Copolimero E Nanoparticelle Da Esso Ottenute Per La Veicolazione Di Un Farmaco	
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