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A TARGETED CHEMOTHERAPEUTIC DRUG DELIVERY SYSTEM AND METHOD FOR PRODUCING THEREOF



▶ MORE INFORMATION

MEGA-TREND

- Healthcare

TECHNOLOGY READINESS LEVEL (TRL)

- TRL 5 (Lab Prototype - Field Testing)

PATENT/ GRANTED NUMBER

- PI 2020006548

▶ TECHNOLOGY OVERVIEW

The invention relates to a targeted chemotherapeutic drug delivery system and method for producing thereof comprising a coating, wherein the coating comprises hyaluronic acid having a molecular weight of at least 100,000 Dalton for improved targeted delivery functionality. The targeted chemotherapeutic drug delivery system comprising (a) a chemotherapeutic agent encapsulated in a poly (ethylene glycol)-poly (lactide-coglycolide) (PEG-PLGA) dib lock copolymer; and (b) a coating covering the dib lock copolymer, wherein the coating comprises hyaluronic acid having a molecular weight of at least 100,000 Dalton. The method comprising the steps of (a) encapsulating a chemotherapeutic agent in a PEG-PLGA dib lock copolymer; and (b) coating the dib lock copolymer with hyaluronic acid having a molecular weight of at least 100,000 Dalton.

CONTACT US!

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