



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

Process for the preparation of core-shell particles by the coacervation method encapsulating contrast agents for multimodal imaging

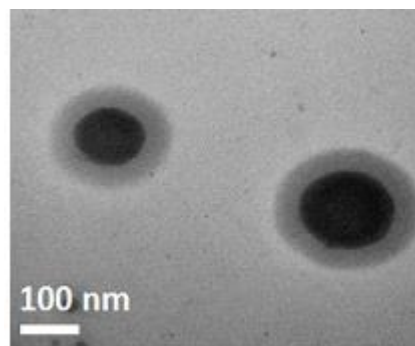
INVENTORS

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DESCRIPTION

The process comprises the following steps:

- Providing a water in oil emulsion of a biocompatible polyelectrolyte polymer;
- Providing an aqueous solution of a biocompatible polyelectrolyte polymer having opposite charges of the polyelectrolyte of step a);
- Adding two crosslinking agents independently to the primary emulsion or the secondary aqueous solution;
- Adding at least a contrast agent independently to the primary emulsion or the secondary solution or emulsion;
- Adding the secondary aqueous solution to the primary emulsion and occurring of the complex coacervation leading to the separation of the coacervate particles.
- Optionally absorb a further contrast agent into the nanoparticles



APPLICATIONS

probes for multimodal imaging, theranostic

KEYWORDS

Complex coacervation, contrast agents, double crosslinking, biocompatible polymers

BIBLIOGRAPHIC DATA

Process for the preparation of double crosslinked core-shell polymeric nanoparticles for multimodal imaging and theranostic applications

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