



Development of prilling process for biodegradable microspheres through experimental designs

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Mots-clés	Experimental design [7], Glycofurol [8], microsphere [9], PLGA [10], Prilling [11]
Résumé en anglais	The prilling process proposes a microparticle formulation easily transferable to the pharmaceutical production, leading to monodispersed and highly controllable microspheres. PLGA microspheres were used for carrying an encapsulated protein and adhered stem cells on its surface, proposing a tool for regeneration therapy against injured tissue. This work focused on the development of the production of PLGA microspheres by the prilling process without toxic solvent. The required production quality needed a complete optimization of the process. Seventeen parameters were studied through experimental designs and led to an acceptable production. The key parameters and mechanisms of formation were highlighted.
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Liens

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