How to achieve sustained and complete protein release from PLGA-based microparticles?

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Résumé en anglais	One of the most challenging tasks in the delivery of therapeutic proteins from PLGA-based microparticles is the sustained and complete release of the protein in its native form. The mechanisms responsible for incomplete protein release from these devices are numerous and complex; the beneficial effect of different formulations has often been evaluated in vitro. Strategies employed for overcoming protein destabilization during the release step are reviewed in this paper. Proteins have been protected in the deleterious environment by adding stabilizers to the formulation, or by modifying the protein or the polymer. Alternatively, some strategies have aimed at avoiding the formation of the destabilizing environment. As experimental conditions may influence the results from in vitro release studies, we initially report precautions to avoid adverse effects.
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