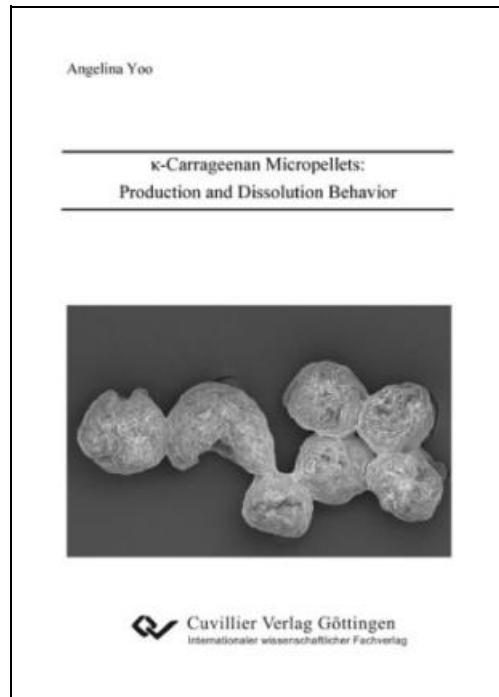


k-Carrageenan Micropellets: Production and Dissolution Behavior



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Cuvillier Verlag Jan 2009, 2009. Taschenbuch. Condition: Neu. Neuware - This is the first report of a systematic investigation on the production of micropellets (500 μm to 700 μm median diameter). In general, -carrageenan is a suitable pelletization aid to produce spherical aggregates by wet extrusion/ spheronization. The obtained pellets show fast drug release, which is advantageous for use with slightly soluble drugs. The mechanism of spheronization for micropellets differed to that for bigger pellets. The conditions for spheronization reported for bigger pellets could not be used to produce micropellets. The optimization of the process parameters for producing micropellets was performed on two different types of spheronizers. The dissolution behavior of the micropellets containing -carrageenan and different APIs was investigated in terms of the effects of ionic interactions. To evaluate the ionic interactions, different chloride salts such as sodium chloride or calcium chloride, among other dissolution media, were added. The different cations used are generally known as `specific ζ - and `non-specific ζ - binding ions to the -carrageenan. A correlation was found between the dissolution behavior of micropellets comprising -carrageenan and the classification of the dissolved ions. When the ratio between API and -carrageenan in the micropellets was varied, a relation between the dissolution rate and the solubility of the API was shown. The dissolution rate of soluble drugs was not affected by the ratio resulting in fast drug release independent of the media. In contrast, the dissolution profiles of micropellets comprising -carrageenan and either very slightly soluble or practically insoluble drugs were dependent on the concentration of the ions. For example, drug release from micropellets comprising -carrageenan was slower with increasing amounts of calcium ions in the dissolution media. Matrix dissolution of the anomalous (non-Fickian) diffusion type was obtained. The dissolution behavior was affected by ionic interactions. The correlation between the ratio...



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