

Special Issue

Cyclodextrins in Drug Formulation and Delivery

Message from the Guest Editors

Cyclodextrins (CDs) are cyclic oligosaccharides which are able to form inclusion complexes with a variety of hydrophobic guest molecules, and are mainly utilized in the pharmaceutical field to enhance the water solubility and dissolution rate of poorly-soluble drugs, to mask unpleasant taste or odor, improve the stability of the included host molecules from hydrolysis or enzymatic degradation in the gastric environment, and reduce local drug irritation phenomena. Vice versa, hydrophobic cyclodextrins could represent suitable carriers for obtaining slow-dissolving profiles of soluble drugs. Cyclodextrins can be successfully applied to improve drug entrapment and drug release and permeation properties from several kinds of conventional or less-conventional drug delivery systems, thus simultaneously exploiting both cyclodextrin complexation and drug delivery systems properties.

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