



Exploring the Versatility of Cyclodextrins in Pharmaceutical Formulations

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Message from the Guest Editor

Dear Colleagues,

The application of cyclodextrins (CDs) as pharmaceutical excipients is highly appreciated and well established. Several papers focusing on various beneficial properties of CDs in this field have been published. CDs are commonly applied as drug delivery systems, solubilizers and absorption promoters, agents that improve drug stability, and excipients used for the heat and radiation protection of other molecules and even active pharmaceutical ingredients (APIs).

However, the applications of CDs have several drawbacks. For example, CDs are usually capable of binding only one drug molecule (fully or partially), showing poor drug loading capacity. Additionally, the relatively low stability constants of drug-CD complexes contribute to easy dissociation and release of their contents. However, due to highly reactive hydroxyl groups, CDs can act as polyfunctional monomers. The polymerization of CDs leads to the formation of cyclodextrin-based nanosponges (CDNSs) and other macromolecules.





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Message from the Editor-in-Chief

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