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COVER ILLUSTRATION Facile methods to improve the dissolution rate of poorly water-soluble drugs are highly sought after. In this study, a modified coaxial electrospinning process was exploited to create medicated amorphous nanocomposites, an approach characterized by the application of a Teflon-coated coaxial spinneret. Hydrophilic polymer hydroxypropyl methylcellulose and active ingredient tamoxifen citrate (TAM) were selected as the drug carrier and model drug, respectively. Their electrospun nanocomposites showed linear morphology with the drug presented in an amorphous state. The loaded cargoes could be released from the nanocomposites simultaneously when they were placed in the dissolution media, showing faster dissolution rates than their counterparts (physical mixtures). Based on the reasonable application of the polymeric carrier, the reported protocols not only provided an approach to enhance the dissolution of poorly water-soluble drugs, but also exhibited a method to facilitate the implementation of coaxial electrospinning.

For more information on this topic please read the article on "Electrospun amorphous medicated nanocomposites fabricated using a Teflon-based concentric spinneret" by Qing Wang, Deng-Guang Yu, Sun-Yi Zhou, Chen Li, and Min Zhao on pages 3–11 of this issue. Copyright holders of the image are the authors of this article.



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