Advanced characterizations of nanoparticles for drug delivery: Investigating their properties through the techniques used in their evaluations

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Abstract
Hormetinone has achieved a huge success in delivering a wide variety of drug molecules into the target site of the body. In this respect, the characterization of nanomaterials is very important to investigate the drug molecules together with its carrier as a nanosystem during formulation, storage, and later transport through the body. This review article summarizes important advanced characterization techniques of nanomaterials with respect to their theories, use of required instrumental parameters, sample preparation techniques, data interpretation, etc., to exploit them for the best possible results. This review article also sheds light on the shortcomings of these techniques together with further advancements required in future. © 2017 Walter de Gruyter GmbH, Berlin/Boston 2017.

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