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Modified release of Diclofenac Sodium from compression-coated tablets

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Diclofenac Sodium is a nonsteroidal anti-inflammatory drug taken or applied to reduce inflammation and pain in certain conditions. Its gastrointestinal adverse effects include persistent nausea/vomiting, loss of appetite, stomach/ abdominal pain, etc. and can be eliminated by the modification of the drug release from the pharmaceutical dosage forms. The aim of this work is to develop and evaluate diclofenac sodium compression coated tablets using different types of Eudragit®.The dissolution experiments involved tablets that were comprised of Diclofenac Sodium, Lactose monohydrate (core) and different types of Eudragit® (coating), and were prepared by direct compression. Their drug release in gastric and intestinal simulated fluids, was determined spectrophotometrically at λmax=276 nm.The results from the in vitro release experiments suggest that the compression coated tablets composition used in this work constitute promising drug delivery systems for the modified release of per os administered Diclofenac Sodium.

Biography

Sofia Konstantinidou is currently an MSc student at UCL, funded by an Onassis Foundation scholarship in Clinical Pharmacy, International Practice & Policy. She has participated in a wide range of conferences worldwide. She has published four articles in peer reviewed journals and one chapter.

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