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The influence of polyvinyl pyrrolidone as hydrophilic pore formers on the release of water insoluble Ketoprofen from ethyl cellulose coated pellets

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Delivering water-insoluble drugs from ethylcellulose (EC) coated pellets with a controlled-release pattern is very challenging. In the present study, hydrophilic polyvinylpyrrolidone (PVP) was used as a pore-former in EC coated pellets to deliver practically water-insoluble ketoprofen and the key factors that influenced drug release were identified. The effect of using PVP at different level in polymer coating part is studied and it was found that a certain level of PVP is required as channeling or pore forming agent to control drug release from the EC coated pellets to achieve target level of dissolution profile with the sensitivity ranging from 10% to 20%. PVP leaching rate and water permeability from EC/PVP film increased with the PVP level, which was perfectly correlated with drug release rate.

Biography

Himankar Baishya has more than decade of experience in Generic Pharmaceutical Industry. He has expertise on drug product development as well as product lifecycle management. He has started his career with Orchid Healthcare (Pfizer group companies), later he has worked in Riyadh Pharma (Saudi Arabia), Kotra Pharma Sdn. Bhd (Malaysia), Yiling Pharmaceuticals, China and currently working in Beijing Sciecure Pharmaceuticals co. Ltd as a Senior Director. He has many publications in international journals & he is also an Editor of Avens Journal of Cancer Sciences, USA.

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