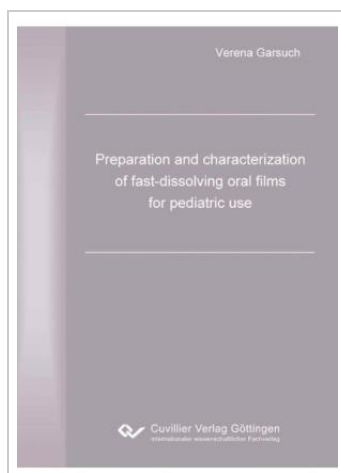




Preparation and characterization of fast-dissolving oral films for pediatric use

By Verena Ingeborg Garsuch

Cuvillier Verlag Jun 2009, 2009. Taschenbuch. Condition: Neu. Neuware - Oral films, also called oral wafers, are intended for the application in the oral cavity and they are an innovative and promising dosage form especially for use in pediatrics and geriatrics. On the one hand the studies focused on the development of such a dosage form for pediatric use with an appropriate active substance. On the other hand it was planned to develop adequate analytical methods for their characterization as well as improving already existing approaches. Drug-free films were prepared according to the patent literature starting with a pre-evaluation of different film formers such as cellulose ethers, polyethylene glycol-polyvinyl alcohol copolymer (Kollicoat(r) IR), pullulan and sodium alginate. Gelatin, hypromellose, polyvinyl alcohol and pullulan were evaluated for further use in drug-loaded oral films in which caffeine was chosen as the API. The best compromise between fast dissolution and pleasant taste was shown for oral films made of gelatin and pullulan. Improving their palatability by using different sweeteners, flavors and dyes led to two formulations with pleasant taste without any bitterness. The oral films, based on different formulations, were evaluated with regard to their morphology, mechanical and thermal properties. Recrystallization of caffeine...



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