Tichopadová Olga: Drug release from oligoester carriers. Rigorous thesis. Faculty of Pharmacy in Hradec Králové, 2006.

The aim of this work was the study of the Terbinafine and Fluconazole release from oligoester carriers branched with 5 % of mannitol (5M) and 30% of dipentaerythritol (3D) and plasticized with various concentration of ethyl pyruvate (EP). The 150,0 mg matrices composed of carrier, drug of 4% and plasticizer EP of 10%, 20% and 30% were prepared. They were put to the static dissolution test using purified water at 37°C. The ACV released was determined spectrophotometricaly at 261 nm in case of Fluconazole respectively 283 nm in case of Terbinafine. Fluconazole was released from carrier 5M linearly from the 1st day to the 4th day of the dissolution test. The complete liberation was finished at the 8th day. Liberation form 3D carrier was slower with the 3-day lag time. Terbinafine release was provided in three stages and was depended on the plasticizer concentration.