

Abstract:

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Title of Thesis: Utilization of Columns Filled by Pellicular Particles for Analysis of
Benzimidazoles

The goal of the diploma thesis was to determine the most suitable mobile phase composition for chromatographic determination of albendazole (ABZ), albendazole sulphoxide (ABZSO) and albendazole sulfone (ABZSO₂). Oxibendazole (OXI) was selected as internal standard and separations were studied on Kinetex PFP 100 mm x 4.6 mm, 2.6 micron column packed with pellicular particles. Four different mobile phases were studied. Each of them was tested at four different component ratios. The optimal mobile phase consisted of acetonitrile and phosphate buffer (pH = 7.0).