HPLC DETERMINATION OF FLUBENDAZOLE NAD ITS METABOLITES IN BIOLOGICAL SAMPLES

A bioanalytical RP HPLC-PDA and new RP HPLC-RF method involving pH-dependent liquid-liquid extraction of flubendazole and its metabolites desethylcarboxy flubendazole and reduced flubendazole into ethyl acetate was performed for the analysis of the parasite material (*Haemonchus contortus*) and for the analysis of sheep plasma. The extracts were analyzed on a reversed-phase LiChroCART (250 mm x 3 mm, 5 μm) column with acetonitrile-phosphate buffer (pH 3,07; 0,025 M) as a mobile phase. Ultraviolet detection of flubendazole and its metabolites was carried out at 246 and 300 nm, fluorescence detection of reduced flubendazole was carried out at λ excitation 290 nm and λ emission 320 nm. Albendazole was chosen as an internal standard. At a flow rate 0,7 ml.min-1 the whole analysis lasted 25 min.

Oponent: Doc. Ing. Barbora Szotáková. Ph.D.