Abstract

Area of human liver microsomal reductases hasn't been fully explored yet. Purification and characterization of still undescribed enzymes is an important step in finishing of this task. There is separation and purification of this reductases described in my work, with usage of hydrophobic interaction chromatography on low pressure chromatography instrument ÄKTA purifier. There were two columns with different substrates used, Phenyl sepharose (low sub) and Octyl sepharose. Separation conditions were the same in both cases.

Results obtained by incubation of fractions and measurement on HPLC showed significant differences between both columns and their substrates. But it isn't possible to determine, which column is better for purification, because big area still remain for adjustment and optimization of purification conditions.