

ABSTRACT

Esters are useful in different fields of organic chemistry, as the ester synthesis has gained the attraction of many scientists and researchers, Enzyme-catalyzed synthesis is becoming a major source of producing a variety of esters at different industrial levels. Valsartan is a hypertension drug used to treat other related complications of high blood pressure such as heart failure and kidney disease. Valsartan octyl ester is produced when octanol and valsartan are esterified in the presence of Lipase. The lipase used in the following research is obtained from two different sources one is commercial lipase and the second is obtained from the fungi *Rhizopus oligosporus*. The ester produced is supposed to have increased permeability in the cell so that amount of medicine can be reduced.