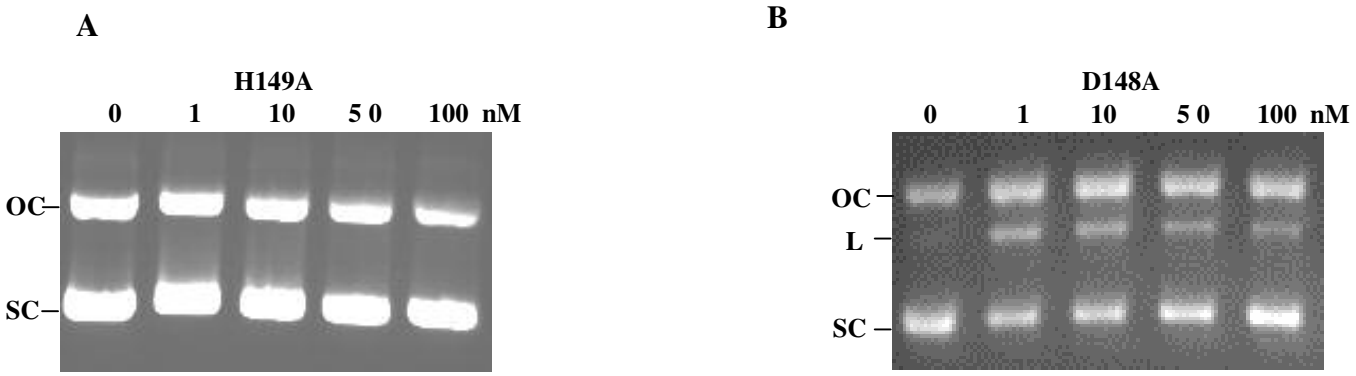
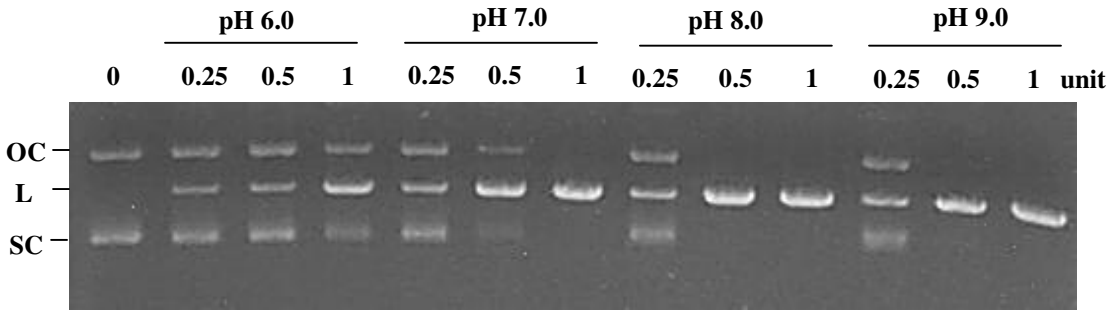
Supplementary Material



DNA cleavage analysis with H149A and D148A mutants of R.KpnI: Purified enzymes (A) H149A and (B) D148A were incubated with pUC18 DNA in the standard assay buffer and condions (Materials and Methods) and the products were electrophoresed on 1 % agarose gel. The concentration of the enzyme used is depicted in each panel. SC, Land OC indicate the supercoiled, linear and open circular forms of the DNA

Supplementary Material



Cleavage profile of R.KpnI at different pH: DNA (pUC18, 500 ng) was digested at different pH by using 0.25, 0.5 and 1 unit of R.KpnI..The reactions were carried out at 37° C for 1 h and the products were analyzed on 1.0% agarose gel SC, L and OC indicate the super coiled, linear and open circular forms of pUC18. The enzyme showed complete DNA cleavage at pH 6.0 when 2 units of enzyme was used