

CHAPTER VII

Conclusion

1. *P. falciparum* had the gene encoding enzyme uridine phosphorylase on the genome and locating at chromosomes 5 and 7 with a single open reading frame and no intron.
2. *P. falciparum* uridine phosphorylase gene was heterologous expressed in *E. coli*.
3. The specific activities of the enzyme was 342 ± 83 nmol/min/mg protein and the k_{cat} value was 1.18 min^{-1} .
4. The K_m values for non-induced expressed protein and induced expressed protein were 28.41 and 121.95 μM , and k_{cat} values were 1.59 and 1.15 min^{-1} , respectively.
5. The molecular mass of *P. falciparum* uridine phosphorylase was approximately 30 kDa.
6. The gene encoding uridine phosphorylase located on chromosome 5 locus PFE0660c had been transcribed throughout the parasite's life cycle.