

CHAPTER V

CONCLUSIONS

1. The recombinant plasmid, pWHM3-*picK*, was constructed under controlled by *lac* promoter.
2. *E. coli* XL1-Blue carrying pWHM3- *picK* expressed *picK* as protein molecular weight of 45 kDa determined by SDS-PAGE and the P450 activity was observed by carbon monoxide difference spectrum analyses.
3. The pWHM3-*picK* was transformed into *S. lividans* TK24 by PEG-mediated protoplast transformation. Transformation efficiency of recombinant *S. lividans* TK24 was 2.27×10^5 transformant per μg DNA.
4. The *picK* expression in *Streptomyces* species could not be detected by SDS-PAGE and carbon monoxide difference spectrum analyses.