

CHAPTER V

CONCLUSION

Isothiazolopyrimidine derivatives were synthesized here by starting from the synthesis of isothiazole ring. Then, isothiazole were reacted with isothiocyanate to produce four derivatives of 5-substituted-3-(substituted) aminoisothiazolo [3,4-d] pyrimidine-4-one-6(7H)-thiones. Derivatization were carried out via methylation under alkali medium to produce four 5-substituted-6-methylthio -3-(substituted) aminoisothiazolo [3,4-d] pyrimidine-4-ones. N-methylation were also occured and separated to obtain three products of 7-methy1-5-substituted-3-(substituted) aminoisothiazolo [3,4-d] pyrimidine-4-one-6-thione. methylsulphide intermediates were hydrolized under acid condition to obtain four 5-substituted-3-(substituted) amino-6-hydroxyisothiazolo [3,4-d] pyrimidine-4-one. treating 5-methyl-6-methylthio-3-methylamino isothiazolo [3,4-d] pyrimidine-4-one with piperidine the expected 5-methy1-3-methy1amino-6-(1-piperidino)isothiazolo [3,4-d]pyrimidine-4-one was obtained.