Antimalarial activity of two coumarin, 5-hydroxy 4-phenylcoumarin (1) and 7-hydroxy 4-phenylcoumarin (2) from *Garcinia balica* Miq against *Plasmodium falciparum* cultured in vitro has been investigated. Antimalarial activity carried out through observation that has been stained smear under a microscope. Through observation can be determine the value of % parasitemia that used to decide value of % growth and % inhibitor concentration. The result showed that both compound had moderate activity with IC$_{50}$ of 6.161 µg/mL for compound (2). From the IC$_{50}$ value can be known compound (2) have inhibitor activity against *Plasmodium falciparum* better than compound (1).

**Keyword**: Antimalarial, Coumarin, Garcinia, in vitro, Plasmodium falciparum