

ABSTRACT

**ANTIMALARIAL ACTIVITY OF ALKALOID SUBFRACTION
FROM C.8.A SEPARATION CHLOROFORM EXTRACT OF
CASSIA SPECTABILIS DC. LEAVES**

The chloroform extract of *Cassia spectabilis*' leaves, one of the *Cassia* family, is proven has an antimalarial activity against *Plasmodium falciparum*. The aim of this research is to know the activity of the alkaloid subfraction, which separated from the chloroform extract, against *P. falciparum* by *in vitro* method. The separation of the chloroform extract achieved by column chromatography then continuing by thin layer chromatography. The subfraction then be tested to the parasite by 48-h test method and been observed under light microscope to count the inhibitory percentage. The inhibitory concentration to inhibit 50% percent from the total parasite (IC₅₀) is 0.013 µg/mL and can be categorized as a strong antimalarial activity. It also shown that the subfraction has an effect to the parasite's stage morphology.

Keyword : antimalarial activity, alkaloid, *Cassia spectabilis* DC. leaves