Repellent effectiveness Permot Leaf Extract (*Passiflora foetida* L.) Against *Culex fatigans* Adult Mosquitoes

**ABSTRACT**

Indonesia as a tropical country has optimal humidity and temperature are favorable for the survival and growth of the parasite. Therefore, a disease caused by a parasite found many of them are mosquito *Culex fatigans*. Moreover, it can disturb the peace of humans and animals through the bite and cause irritation to the skin, the mosquito *Culex fatigans* can also serve as vectors of disease including Filariasis disease, Chikungunya and *Japanese B encephalitis*. The use of repellent to prevent mosquito bites can provide important protection from disease vectors. DEET, a common repellent that has been used around the world have been reported to have flaws and concern over toxicity. That us, evaluation of the natural repellent of plants to add to conventional control methods. Permot leaf active compounds from the leaves has been reported to have activity as a repellent. This study was conducted to determine the effectiveness of the repellent permot leaf extract (*Passiflora foetida* L.) against adult mosquitoes *Culex fatigans*. The period of study was conducted from November to December 2014. Permot leaf extract consists of 3 creams concentration of 5%, 10%, and 15% with a negative control using a cream without the use of leaf extracts permot and positive control using mosquito lotion soffel® and applied to both arms of volunteers. Permot leaf extracts showed activity against *Culex fatigans* repellent. Keywords: leaf permot, *Passiflora foetida* L, *Culex fatigans*, repellent.