

IDENTIFYING *Trypanosoma* sp ON MICE (*Rattus* sp) USING *POLYMERASE CHAIN REACTION* (PCR) METHOD IN BANGKALAN DISTRICT, BANGKALAN REGENCY, MADURA

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ABSTRACT

Trypanosomiasis is a disease caused by types of *Trypanosoma* sp, which includes *T. evansi*, *T. vivax*, *T. congolense*, and *T. cruzi*. This is the first study in Indonesia attempts to identify *Trypanosoma* sp on mice (*Rattus* sp) in Bangkalan District, Bangkalan Regency, Madura that applied *Polymerase Chain Reaction* (PCR) as identification method. It was conducted from October 2015 to December 2015. It applied PCR examination on thin blood smear preparations by using pair of primers, namely *T. evansi* and *T. lewisi*. The finding of it was indicated that one sample of blood smear preparations was positive. The positive samples undergoes PCR examination. Result of PCR diagnosis showed positive results of *Trypanosoma* sp with length of DNA band 480 bp for *T. evansi*, 250 bp and 680 bp as other types of *Trypanosoma* sp.

Key words : *Trypanosoma* sp, mice, blood smear, *Polymerase Chain Reaction*

