ANTIGENCITY OF *Moniezia benedeni* PROTEINS WITH ANTI- *Toxocara vitulorum* BY WESTERN BLOT

Noviyanto Nugroho

ABSTRACT

The purpose of this study was to determine the cross-reaction between proteins *Moniezia benedeni* with anti-*Toxocara vitulorum* serum and determine the specific and non-specific molecular weight proteins from *Moniezia* spp. as an initial step for the development of *Toxocariasis* diagnostic.

*Moniezia benedeni* taken from small intestine cattle affected *Monieziasis*. WWE proteins derived from adult worm scours. *Toxocara vitulorum* collected from calf *Toxocariasis* patients. L2 eggs obtained from adult worm scours and incubated at room temperature with PBS medium for 21-28 days. Eggs L2 were infected in mouse to obtain anti-*T. vitulorum* serum. *Moniezia benedeni* antigen then reacted with serum anti-*T. vitulorum* by Western blot.

The results of Western Blot showed that cross-reaction between the *Moniezia benedeni* with anti-*T. vitulorum* serum in a proteins with a molecular weight of 240; 206; 69; 63; 46; 45; 44; 42; 38; 34; 32; 11 dan 9 kDa.

Key words: *Moniezia benedeni*, *Toxocara vitulorum*, *Whole Worm Extract*, *Western blot*.