ABSTRAK

Daun Pare mengandung Saponin dan Tanin. Saponin dan tanin merupakan senyawa aktif yang mempunyai efek anthelmintik. Saponin bersifat toksik terhadap *Ascaris lumbricoides* karena menurunkan tegangan permukaan membrane dinding sel serta menghambat enzim asetilkolinesterase yang menimbulkan paralisis cacing. Tanin merusak protein tubuh cacing. Telah dilakukan penelitian namun belum memuaskan. Penelitian ini bertujuan untuk mengetahui daya anthelmintik ekstrak daun pare (*Momordiica Charantia L.)* terhadap *Ascaris suum* dewasa secara in vitro.

Jenis penelitian yang dilakukan adalah eksperimental dengan rancangan *post test only control group design.* Hewan uji berupa cacing *Ascaris suum* dewasa sebanyak 72 ekor yang di bagi 4 kelompok dan 3 kali replikasi. Kelompok I sebagai kontrol negatif NaCl 0,9%, kelompok II, III diberi ekstrak daun pare konsentrasi 40%, 80%, kelompok IV sebagai kontrol positif mebendazol 30 ppm. Di amati selama 8 jam.

Hasil rerata kematian cacing *Ascaris suum* dewasa yaitu K-I sebesar 0 $\pm$ 0, K-II sebesar 1.62 $\pm$ 1.21, K-III sebesar 2.87 $\pm$ 1.86, K-IV sebesar 4.12 $\pm$ 1.95. Data yang diperoleh dilakukan uji *Kruskall-Wallis* dengan hasil terdapat perbedaan antar kelompok perlakuan p *value* 0,000 ($p<0,05$). Kemudian di uji *Mann-Whitney* yang menunjukkan perbedaan yang bermakna pada kelompok I dengan kelompok III dan IV ($p < 0,000$). Hasil analisis probit LT_{99} pada K-II yaitu 15.02 jam, K-III yaitu 10.64 jam.

Dari hasil tersebut disimpulkan bahwa ekstrak daun pare memiliki daya anthelmintik terhadap cacing *Ascaris suum* dewasa secara *in vitro*.

Kata Kunci : daun pare, anthelmintik, *Ascaris suum*

ABSTRACT

Momordica charantia L. leaves containing saponins and tannins has been shown to have as anthelmintic activity. Saponins are toxic againts *Ascaris lumbricoides* because it lowers the tension of membrane cell and inhibit the enzyme acetylcholinesterase leading to paralysis in worms, and damage worm body's protein. The anthelmintic effect of *Momordica charantia L*. been studied. The purpose of this study was to determine the anthelmintic activity of *Momordica charantia L*. leaves extract against *Ascaris suum* in vitro. In this study was an experimental laboratory study with post test only control group design, 72 adult *Ascaris suum* were divided into 4 groups and three times replication. The extract were subjected with probit analysis. The data analyzed with Kruskal-Wallis test. Group I and IV served as a negative control (NaCl 0.9%) and possitive control group (Mebendzaol 30ppm) respectively. group II, and III, were treated with 40%, and 80% *Momordica charantia L.* extract respectively. The treatment was evaluated over a period of 8 hours. The result showed mean of *Ascaris suum* mortality for K-I, K-II, K-III K-IV *Momordica charantia L.* were 0 $\pm$ 0, 1.62 $\pm$ 1.21, 2.87 $\pm$ 1.86, and 4.12 $\pm$ 1.95 respectively. There was a significant difference in anthelminctic activity between treated and control groups ($p = 0.000$). The highest difference were found between group I and Group III , IV ($p = 0.000$). The result showed that lethal time (LT_{99}) for K-II, K-III were at 15.02, and 10.64 h respectively. In conclusion, *Momordica charantia L.* leaves extract has an anthelmintic activity againts *Ascaris suum* in vitro.

Keyword: *Momordica charantia L.* leaves, anthelmintic, *Ascaris suum*