

Efficacy of *Tephrosia vogelli* and *Vernonia amygdalina* as anthelmintics against *Ascaridia galli* in indigenous chicken

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Abstract

The efficacy of *Tephrosia vogelli* and *Vernonia amygdalina* leaf extracts as anthelmintic against *Ascaridia galli* was determined *in-vitro* and *in-vivo*. The extracts whose chemical constituents included rotenoids, sesquiterpene lactones, glycosides, anthracenes and tannins, had significant ($p < 0.05$) activity against *Ascaridia galli* both *in-vitro* and *in-vivo*. The *in-vitro* larval migration inhibition of 74.7 and 63.7 % was supported by the faecal egg count reduction of 77.4 and 76.9 and reduced total worm counts at necropsy for *Tephrosia vogelli* and *Vernonia amygdalina* extracts, respectively. The results have demonstrated that the extracts of the two plants have significant activity against the chicken parasite *Ascaridia galli* and can be integrated in indigenous chicken health management system.