EVALUATION OF EXTRACT OF *IMPATIENS WALLERIANA* AS AN ANTHELMINTIC

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(Received 08 January 2025) (Accepted 07 January 2026)

ABSTRACT

For ages, plants have been part of the solution for human ailments. *Impatiens walleriana* (Family: Balsaminaceae) is a decorative plant and its parts are edible and medicinal. Its healing potential is backed by ethnopharmacological data. Infections with parasitic worms are a threat to public health, particularly in developing or third world countries distressing a large proportion of world population. Helminthiasis causes significant morbidity in humans. There is a growing interest in the traditional cures of livestock diseases. *I. walleriana* has not been screened for anthelmintic activity. In the present study, hydroalcoholic extract of the said plant has been evaluated for anthelmintic effect using aerial and root portions separately. Findings reveal significant anthelmintic effect associated with both aerial and root portion extracts in comparison to piperazine citrate standard when tested *in vitro* using *Eudrilus eugeniae* earthworms. Results of root extract for 20 µg, 40 µg, 60 µg and 100 µg are significant compared to the standard ($P<0.001$, $P<0.001$, $P<0.001$ and $P<0.01$, respectively) for both paralysis and death parameters. Results of aerial extract for 20 µg and 40 µg doses are significant compared to the standard for paralysis and death parameters ($P<0.001$and $P<0.01$, respectively).