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EFFECT OF *EUDRILUS EUGENIAE* VERMIWASH ON THE GROWTH OF PLANTS

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ABSTRACT – Earthworms are known for their excellent contribution in increasing the soil fertility and promoting the plant growth through their body secretion and castings. Therefore, present experiment is designed to study the effect of vermiwash produced by *Eudrilus eugeniae* on the growth of different plant crops like *Vigna mungo, Vigna radiata* and *Sesamum indicum.* In all the plant crops, the root length, shoot length, number of twigs, leaves, flowers, pods, grains and total biomass of plants treated with vermiwash were increased significantly (P< 0.001) in *Vigna mungo* (2.46±0.03* for 20 Days) and (3.70±0.03*** for 40 Days) *Vigna radiata (*2.60±0.05*** for 20 days) and (3.94±0.05*** for 40 days) *Sesamum indicum* (0.80±0.05*** for 20 days) and (0.98±05*** for 40 days) compared to that of control. Therefore, it may be concluded that significant increase in the growth of plants and their grain yield in vermiwash treated plants is due to high level of macro (N, P, K, S, Ca, Organic Carbon) and micro nutrients (Fe, Mn, Cu and Zn) available in the vermiwash.**

Key words*: Vigna mungo, Vigna radiata, Sesamum indicum, Eudrilus eugeniae,* Vermiwash.