DIFFERENTS DOSES OF CATTLE MANURE IN *Phyla betulifolia* (Kunth) Greene GROWTH

Ribeiro FNS[1], Germano CM[1], Rocha TT[1], Roza HLH[1], Bertolucci SKV[1], Lameira AO[2], Pinto JEBP[1]*

Introduction: Researches about biomass production in response to organic fertilization are developed, but there is still need for more studies with medicinal species, as, for example, *Phyla betulifolia* (Verbenaceae), where so far there are no data on its cultivation or any information concerning its growth process, it is important to establish appropriate production techniques for this specie in order to prevent its disappearance. **Objective**:This research aimed to verify the effect of different doses of cattle manure on *P*. *betulifolia* growth. **Material and Methods**: The experimental design was completely randomized, with five treatments and four replications, and each one was represented by five plants. The treatments consisted in five doses of cattle manure in substrate composition (0, 3, 6, 9 and 12 kg/m²).**Results and discussion:** The parameters of growth evaluated were: biomass of leaves, flower, stem and root. *P. betulifolia* significantly responded to doses of cattle manure, for all parameters. Checking a linear response for the characteristics evaluated in function of increasing doses of cattle manure. **Conclusion:** *P. betulifolia* has achieved greater growth when plants were subjected to a dose of 12 kg/m² of manure.

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*[1] Federal University of Lavras, Lavras – MG, Brasil. *jeduardo@dag.ufla.br*
[2] Embrapa Amazônia Oriental, Belém-PA, Brasil.