

Effect of Biowaste of Onion Peel Extract on Jowar

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Abstract: Onion peel waste generated daily as kitchen waste can be utilized as fertilizer. In present investigation effect of 1 % and their dilutions such as 3:1, 1:1 and 1:3 studied on jowar seeds. Results depicts stimulatory effect of 3:1 and 1:1 dilutions on jowar seed germination and seedling growth while inhibitory effect of direct i.e. 1 percent extract and 1:3 dilution on seedling growth of jowar. Results conclude that 0.7 to 0.5 % onion peel extract can acts as liquid fertilizer. Still further study of onion peel extract required by using soil.

Keywords: Onion, Jowar, Seed Germination, Seedling Growth.

REFERENCES

- [1]. Bhattacharjee S., Sultana, A., Sazzad, M.H., Islam, M. A., Ahtashom, M. M., Asaduzzaman (2013). Analysis of the proximate composition and energy values of two varieties of onion (*Allium cepa* L.) bulbs of different origin: A comparative study, *International Journal of Nutrition and Food Sciences*, 2(5), 246-253.
- [2]. Slimestad R. T., Fossen I, Vage M. (2007). Reviews Onions: a source of unique dietary flavonoids. *J Agriculture Food Chem.*, 55(25), 10067-80.
- [3]. Loredana L, Rosa C, Donatela A, Francesco R, Alessio C, Marisa Di M. Chemical Composition and Antioxidant properties of five white onion (*Allium cepa* L.) Landraces. *J food quality*, 2017;6873651:9
- [4]. Mominul IAKM, Sabina Y, Qasem JRS, Juraimi A, Md Parvez A. (2018). Allelopathy of medicinal plants: Current status and future prospects in weed management. *Agri Sci.*, 9, 89-160.
- [5]. Kumar D., Kumar N., Akamatsu K., Kusaka E., Harada H., I to T. (2010). Synthesis and biological evaluation of indolyl chalcones as antitumor agents. *Bioorg Med Chem Let.*, 20,3916-9.
- [6]. Radwan M. A., Huda A. A., Sahar KMK. (2019) Effect of *Calotropis procera* L. plant extract on seeds germination and the growth of microorganisms. *Ann Agri Sci.*, 64,183
- [7]. Patil M., Jana, P. Murumkar, C (2021). Effect of onion and garlic biowaste on germination and growth of microgreens, *International Journal of Scientific Reports*, 7(6), 302-305.