



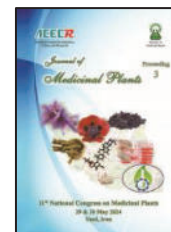
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Investigating the application of biofertilizers on fennel seed germination parameters

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ARTICLE INFO	ABSTRACT
<p>Keywords: Biofertilizer Fennel Germination Seed</p>	<p>Considering the effect of biofertilizers on germination, germination speed and some germination parameters, an experiment was conducted with the combination of biofertilizers. In order to investigate the effect of phosphate, potassium, zinc and iron soluble biofertilizers as well as nitrogen bio fixation on germination parameters in fennel plant, a statistical experiment was conducted with 8 treatments in three replications in laboratory conditions. The results showed that biological fertilizers had no effect on germination and germination speed, but had a significant effect on root length, stem length, seedling length, seed vigor, fresh and dry weight at the 5% level. According to these results, it is possible to recommend the use of biological fertilizers in the seeds of the medicinal plant fennel before planting. Therefore, according to these results, it can be said that for faster plant growth and germination, it is better to use organic fertilizer in bulk in medicinal plants.</p>

References

1. Saidi, Majid, Ebrahimzadeh, Mohammad Ali, Morteza Semnani, Katayoun, Akhi, Ezra, and Rabiei, Khadija. Investigating the antibacterial effect of fennel seed ethanolic extract. *Journal of Mazandaran University of Medical Sciences* (University Letter), 1389; 20(77), 88-91. SID. <https://sid.ir/paper/44780/fa>.
2. Safai, Laili, Zainali, Hossein, and Majdansiri, Bahram. The effect of salinity stress on the germination of fennel seeds (*Foeniculum vulgare* Mill.). *JOURNAL OF RESEARCH IN AGRICULTURAL SCIENCE*, 1384; 1(2), 63-69. SID. <https://sid.ir/paper/115200/fa>.
3. Qalavand, Amir, Nurmohammadi, Qurban, Mateen, Abulqasem, Amin, Gholamreza, Babakhanlou, Parviz, Baschi, Mohammad Hossein, Sefidkan, Fatemeh, and Sharifi Ashourabadi, Ibrahim. Investigating the effect of organic and chemical fertilizers on fennel yield. *Iranian Medicinal and Aromatic Plants Research*, 1380; (7), 3-26. SID. <https://sid.ir/paper/105001/fa>