



International Journal of ChemTech Research CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.9, No.06 pp 339-346, 2016

Effect of Salt Stress on Plant Growth and Free Endogenous Hormones of Primed Radish (*Raphanus Sativus* L.) Seeds With Salicylic Acid

Ali Husain Jasim¹, Wassan Mudher Abo Al Timmen^{2*}, Allyaa Saad Abid³

^{1,3}Crop Sci. Dept., Coll. of agric., Univ. of Babylon, Iraq ²Biol. Sci., Coll. of Science, Univ. of Babylon, Iraq.

Abstract : Factorial experiment with two factors was conducted to study the effect of radish seeds (*Raphanus sativus* L.) primed with salicylic acid (SA) for 24 h on plant growth and hormones concentration and its ability to increase plant tolerance to salt stress added through water irrigation as sodium chloride (NaCl). The results showed that salt stress was negatively affect on plant height, chlorophyll content, fresh weight of shoot and root and, free IAA concentration. While, salt stress inefficient on GA and CK concentrations. Priming seeds with SA caused a decrease in free IAA, GA concentrations, while free CK and ABA concentration did not different significantly from control plants which gives the plant more tolerance to salt stress.

Key words: salt stress, radish, salicylic acid, endogenous hormones.

Wassan Mudher Timmen et al /International Journal of ChemTech Research, 2016,9(6),pp 339-346.
