

Abstract

superoxide dismutase SOD under salt stress in the 3 selected genotype test to compare gene expression, cucumber, Cu/Zn SOD enzyme superoxide dismutase activity and is based on completely random factorial design experiment in Zabol University biotechnology research center. Three replications for each genotype was considered and then samples of salt concentration, with two patients under 50 mM and 100 mM. RNA sample extracted from the leaves of each cDNA reverse transcription was made with and. For all the samples to the norm are α gene expression level of genes controlling tubulin genes at the same time as a case study in Real Time PCR reaction were studied. Then the enzyme superoxide dismutase fitted by the gene code will also lift a wavelength measured with 560 nm. The results showed that among the genotypes studied for an average of 3 maximum value in gene expression, gene expression, genotypes related to genotype number 3 in terms of salinity minimum amount 100 mM 6/247 and related to genotype number 1 with a 2/59 fitted without tension in the State. In the case of enzymes as well as genotype number 2 under salinity stress concentration of 100 mM with a maximum amount of enzyme activity and 8/503 genotype 1 in the control mode with a minimum 2/25 of the enzyme activity.

Key words: gene expression, superoxide dismutase, cucumber, salt stress, enzyme



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Cu/Zn SOD gene expression and superoxide dismutase enzyme activity in *Cucumis sativus* under salinity stress

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