

عنوان مقاله:

The effect of salicylic acid on the some biochemical parameters in Liquorice (*Glycyrrhiza glabra* L.) under the salt stress

محل انتشار:

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خلاصه مقاله:

Today, herbs are economically important plants used and can be exploited in traditional and modern medicine. However, salinity is one of the main factors limiting growth and agricultural production. Evaluation of salt tolerance of medicine plants to grow in saline areas is of particular importance. Assessments in field conditions is of the time, and on the other hand, under the water, air and soil factors. Therefore, a proper and control laboratory procedures provides to check the response of plants to stress. In this study, the effect of salt and SA on liquorice plant was conducted factorial in randomized complete block design with three replications in hydroponic conditions. Salinity levels included 0, 50, 100 and 200 mM and SA concentrations included 0, 0.01 and 0.1. Data were analyzed using the SPSS software. The results showed that with the increase of salinity, anthocyanin, prolin, hydrogen peroxide, phenolic compounds in roots and peroxidase enzyme activity increased and protein, phenolic compounds in shoot decreased.

The results also showed the impact of salicylic acid to fix the damage caused by salt stress in liquorice plant

کلمات کلیدی:

(.Salinity stress, Salicylic acid, Liquorice (*Glycyrrhiza glabra* L

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