

Effect of Different Irrigation Intervals on Protein and Gel Production of Aloe Vera (*Aloe Barbadensis M.*) in Iran

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Abstract : This study was done in order to evaluation different irrigation intervals on amount of protein, and gel production in Aloe vera, a traditional medicinal plant. Plants was plnted in Greenhouse and irrigated according to Accumulative Pan Evaporation(APE). The treatments were included 20, 40, 60, 80, 100, 120, 140, 160, 180, and 200 mm APE which has been showed W1,W2, W3, W4, W5, W6, W7, W8,W9 and W10 respectively.The amount of protein and gel production was measured seperately. Results showed that highest protein and fresh weight of gel obtained plants which irrigated W6 and W7 respectively. According to these results can recomend which if plant irrigatedwhen APE reached 120 and 140 mm by Class A Evaporation Pan method gel production and protein would besuitable in north of khozestan province in limited irrigation conditions.

Keywords : irrigation, protein, gel, aloe vera, Iran

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