

**THE EFFECT OF ONION PEEL EXTRACT INVIGORATION
ON SOYBEAN SEED VIGOR (*Glycine max* (L). MERRIL) ON
SALINITY STRESS CONDITION**

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ABSTRACT

The success of growing and developing a plant with good in suboptimal land seen when the germination phase. In that phase plant growth is highly susceptible to abiotic stresses, including salinity. But with the provision of antioxidant invigoration, the formation of free radicals can be neutralized and can be inhibited, by making donor electrons on radical free. This study aims to determine the effect of antioxidant invigoration on soybean seed vigor at some level of stress salinity research was conducted in the month November 2022 at Taman Cilolohan Indah residential greenhouse using rack design with factorial pattern factor 1= Salinity level (C), consisting of 3 levels ($c_0 = 0\%$, $c_1 = 10\%$, $c_2 = 20\%$), factor 2 = antioxidant invigoration (A), consisting from 3 levels ($a_0 = \text{control}$, $a_1 = 5\%$, $a_2 = 7,5\%$) the result showed that there is an interaction between the type of antioxidant invigoration and salinity stress on hypocotyl length.

Keywords : antioxidant onion peel extract, salinity stress, and invigoration.