

## Increased Seedling Vigor Through Phytohomeopathy

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**Abstract :** Plants are affected by substances diluted below certain limits. In seeds subjected to ultra-high dilutions (UHD), according to phytohomeopathic methods, it is possible to reduce the concentrations to infinitesimal levels and the effects persist. This research aimed to test different potencies of UHD to modify the vigor of *Eruca versicaria* (L) Cav. seedlings. The research was carried out at the Plant Production Laboratory of UNISUL University in Santa Catarina, Brazil. Eight UHD treatments were tested, four drops for every 30 mL of distilled water: Control (70% alcohol - A70); Sulphur (S9), Acidum fluoridricum (A30), Calcarea carbonica (C200), Graphies naturalis (G200), Kali carbonicum (K100) Belladonna (B12), diluted and succussed in Hahnemannian centesimal standards. The statistical design consisted of 50 seeds every 4 replicates per treatment, completely randomized, followed by ANOVA and Tukey's test. The results showed significant differences between the control (A70) and the other treatments. Conductivity measurements were made in the seed germination water and impedance; the seedlings were measured for dry weight and total area. The highest conductivity occurred in the control treatment (27.8  $\mu\text{S}/\text{cm}$ ) and the lowest in K100 (21.3  $\mu\text{S}/\text{cm}$ ). After germination, on germitest paper, A70 was significantly different from G200 (<1%) and S9 (5%). Both homeopathies differed from the other treatments, with S9 obtaining the best germination (87.1%) and vigor index (IV=7.98) in relation to the other treatments. The control, A70, presented the lowest germination (63.9%) and vigor (IV=4.93).

**Keywords :** ultra high dilution, impedance, conductivity, *eruca versicaria*

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