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THE EFFECT OF LYTHRUM SALICARIA L. EXTRACTS ON SEED GERMINATION AND SEEDLING GROWTH OF EPILOBIUM HIRSUTUM L.

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In this study, the effect of *Lythrum salicaria* L. root, shoot and leaf extracts, obtained from ethanol, acetone and hexane, on seed germination (%), root-stem length and fresh-dry weight of *Epilobium hirsutum* L. were investigated. Distilled water was used as control group. According to results, extracts obtained from ethanol and acetone were affected germination (%) and seedling growth of *L. salicaria* negatively when compared to control group. Whereas, seeds germination percent in hexane extracts shown similar results as control group. It was determined that extracts obtained from ethanol had the lowest germination % and the seedling growth. According to the results of GC-MS analysis, tetradecane, hexadecane, octadecane, eicosane, heneicosane, tricosane, nonacosane, docosane, pentacosane and 1, 2 benzenedicarboxylic acide were determined in all extracts.

Keywords: Germination, purple loosestrife, root-shoot-leaf extracts.