

Article

Proximate Composition, Bioactive Compounds, and Antioxidant Potential of Wild Halophytes Grown in Coastal Salt Marsh Habitats

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Supplementary Materials

Table S1. Soil analysis of the representative habitats supporting the growth of the studied halophytes along the Deltaic Mediterranean coastal desert, Egypt.

| Soil variables | <i>A. macrostachyum</i> (n=9) | <i>H. strobilaceum</i> (n=7) | <i>L. monoptalum</i> (n=4) | <i>L. pruinsum</i> (n=4) | <i>T. nilotica</i> (n=8) | LSD _{0.05} |
|---|----------------------------------|---------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------|
| Sand (%) | 90.72±0.72* | 94.26±1.04 | 94.05±1.32 | 92.93±1.77 | 92.03±0.67 | 11.09ns |
| Silt (%) | 5.88±0.36 | 3.47±0.59 | 3.90±1.00 | 4.85±1.28 | 4.98±0.38 | 6.60ns |
| Clay (%) | 3.40±0.37 | 2.27±0.46 | 2.05±0.36 | 2.23±0.50 | 3.00±0.31 | 4.82ns |
| Porosity (%) | 43.68±0.88 | 42.66±1.46 | 38.85±2.21 | 43.60±2.29 | 40.85±1.02 | 13.08ns |
| WHC (%) | 37.90±0.63 | 38.34±0.77 | 37.13±0.85 | 37.08±1.24 | 39.81±0.61 | 8.33ns |
| pH | 9.21±0.06 | 9.30±0.05 | 9.45±0.09 | 9.43±0.06 | 9.18±0.04 | 0.55ns |
| EC (mS cm ⁻¹) | 3.22±0.32 | 2.43±0.38 | 0.75±0.95 | 1.90±0.32 | 1.35±0.13 | 3.67ns |
| CaCO ₃ (%) | 4.95±0.23 | 3.14±0.20 | 9.09±1.59 | 8.75±1.45 | 3.85±0.15 | 6.12ns |
| Organic carbon (%) | 0.70±0.03 | 0.60±0.03 | 0.62±0.05 | 0.68±0.05 | 0.75±0.03 | 0.37ns |
| Cl ⁻ (%) | 0.29±0.03 | 0.22±0.04 | 0.07±0.01 | 0.19±0.03 | 0.12±0.01 | 0.36ns |
| SO ₄ ²⁻ (%) | 0.18±0.02 | 0.15±0.02 | 0.05±0.01 | 0.11±0.02 | 0.08±0.01 | 0.22ns |
| HCO ₃ ⁻ (%) | 0.20±0.02 | 0.16±0.03 | 0.05±0.01 | 0.13±0.02 | 0.09±0.01 | 0.24ns |
| Na ⁺ (mg 100g ⁻¹) | 221.85±24.23 | 166.95±26.74 | 51.75±6.55 | 128.23±21.57 | 90.42±8.85 | 268.36ns |
| K ⁺ (mg 100g ⁻¹) | 34.54±3.89 | 25.41±4.42 | 9.07±1.23 | 21.65±3.44 | 15.16±1.50 | 43.42ns |
| Ca ²⁺ (mg 100g ⁻¹) | 60.69±6.49 | 46.94±7.65 | 15.15±1.90 | 39.23±6.35 | 26.55±2.61 | 74.26ns |
| Mg ²⁺ (mg 100g ⁻¹) | 21.71±2.16 | 18.93±3.42 | 7.02±0.90 | 19.05±3.28 | 11.43±1.15 | 28.47ns |

*Mean values ± standard error. Different letter within each row means values with significant difference after Duncan's post hoc test ($p < 0.05$). LSD_{0.05}: least significant difference at probability level of 0.05. ns: non-significant, WHC: water holding capacity, and EC: electrical conductivity.