**Electronic Supplementary Material 2 - *Agronomy***

Halophytes root-associated bacteria and their biofertilizer potential on cash crop Salicornia ramosissima under environmental stressors related to climate change

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**Supplementary Table 2.** Gram staining, motility, NaCl tolerance and Plant Growth Promoting properties of the 44 rhizobacteria isolated from *Salicornia ramossisima* in Tinto (SRT strains) and Piedras (SRP strains) salt marshes (SW Spain). Strains selected to stablish the *consortium* appear highlighted in grey colour.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Strain |  | Gram staining |  | Motility |  | Salt tolerance (NaCl %)a | |  | Plant Growth Promoting properties | | | | | |
| **28ºC** | **40ºC** | **Nitrogen fixationb** | **Phosphate solubilizationc** | **Siderophores productionc** | **Auxines production (mg/ml)** | **Biofilm productionb** | **ACC deaminase production(µmoles mg-1 h-1)** |
| **SRT1** |  | + |  | + |  | 10 | 6 |  | + | 10 | 20 | 5,65 | - | - |
| **SRT2** |  | + |  | - |  | 10 | 10 |  | - | 10 | - | - | - | - |
| **SRT3** |  | + |  | - |  | 10 | 6 |  | +- | - | - | - | - | - |
| **SRT4** |  | + |  | - |  | 6 | 6 |  | - | - | - | - | + | - |
| **SRT5** |  | + |  | - |  | 10 | - |  | - | 12 | 15 | - | +- | - |
| **SRT6** |  | + |  | - |  | 1 | 10 |  | + | 12 | - | - | - | - |
| **SRT7** |  | + |  | - |  | 10 | 10 |  | + | - | - | - | ++ | - |
| **SRT8** |  | - |  | + |  | 6 | - |  | - | - | - | - | + - | 1,24 |
| **SRT9** |  | + |  | - |  | 10 | 6 |  | - | - | - | - | - | - |
| **SRT10** |  | + |  | - |  | 10 | 10 |  | + | - | 17 | - | - | - |
| **SRT11** |  | + |  | - |  | 10 | 10 |  | + | - | 15 | 2,61 | - | - |
| **SRT12** |  | + |  | - |  | 10 | 10 |  | + | - | 25 | 5,43 | +- | - |
| **SRT13** |  | + |  | + |  | 1 | 6 |  | + | - | 14 | 8,70 | +- | - |
| **SRT14** |  | + |  | + |  | 10 | 10 |  | + | 9 | 20 | 1,93 | +- | - |
| **SRT15** |  | + |  | - |  | 1 | 1 |  | + | 9 | - | 20,99 | - | - |
| SRT16 |  | + |  | - |  | 10 | 6 |  | + | - | 14 | 5,55 | - | - |
| SRP1 |  | + |  | - |  | 6 | 1 |  | +- | - | - | - | - | - |
| **SRP2** |  | + |  | - |  | 6 | 6 |  | - | - | - | - | - | - |
| **SRP3** |  | + |  | - |  | 10 | 6 |  | + | - | 11 | - | + | - |
| **SRP4** |  | + |  | - |  | 10 | 6 |  | + | 10 | - | - | ++ | - |
| **SRP5** |  | + |  | - |  | 10 | 10 |  | + | - | - | - | - | - |
| **SRP6** |  | + |  | + |  | 10 | 10 |  | - | - | 14 | 10,07 | - | - |
| **SRP7** |  | - |  | - |  | 6 | 6 |  | - | - | - | - | - | - |
| **SRP8** |  | + |  | + |  | 10 | 6 |  | - | - | 11 | - | - |  |
| **SRP9** |  | + |  | - |  | 6 | 1 |  | + | 11 | 16 | - | - | - |
| **SRP10** |  | + |  | - |  | 1 | 10 |  | + | - | 11 | 2,15 | - | - |
| **SRP11** |  | + |  | - |  | 10 | 10 |  | - | 13 | - | - | - | - |
| **SRP12** |  | - |  | + |  | 10 | 10 |  | + | - | 16 | - | - | - |
| **SRP13** |  | + |  | - |  | 6 | 1 |  | - | - | - | 2,91 | - | - |
| **SRP14** |  | + |  | - |  | 10 | 10 |  | + | - | 12 | 4,28 | + | - |
| **SRP15** |  | + |  | - |  | 10 | 10 |  | + | 12 | 20 | 3,19 | - | - |
| **SRP16** |  | - |  | - |  | 10 | 10 |  | - | - | - | - | +- | - |
| **SRP17** |  | + |  | - |  | 10 | 10 |  | + | 10 | 18 | - | - | - |
| **SRP18** |  | + |  | - |  | 10 | - |  | + | 10 | - | 2,32 | - | - |
| **SRP19** |  | + |  | - |  | 10 | 6 |  | - | - | - | - | - | - |
| **SRP20** |  | + |  | + |  | 10 | 10 |  | + | - | - | 3,20 | - | - |
| **SRP22** |  | + |  | - |  | 1 | 10 |  | + | 12 | - | 2,73 | - | - |
| **SRP23** |  | + |  | - |  | 1 | 10 |  | + | - | 17 | 4,27 | - | - |
| **SRP24** |  | + |  | - |  | 6 | 10 |  | + | - | - | 2,86 | - | - |
| **SRP25** |  | + |  | - |  | 10 | 10 |  | - | - | - | - | - | - |
| **SRP27** |  | + |  | + |  | 6 | 10 |  | + | - | 20 | - | - | - |
| **SRP28** |  | - |  | + |  | 6 | 6 |  | + | - | 15 | 4,14 | - | - |
| **SRP29** |  | + |  | - |  | 1 | 1 |  | - | - | - | - | +- | - |
| **SRP30** |  | + |  | - |  | 1 | 1 |  | + | 10 | - | - | - | - |

a Results are expressed in % of NaCl of the medium (1 % = 0,2 M NaCl, 6 % = 1,2 M NaCl, 10 % = 2 M NaCl).

b Results are expressed by presence or absence of visible growth.

c Results show the diameter of the halo in mm.