

Title: Alginates along the filament of the brown alga *Ectocarpus* help cells cope with stress.

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Supplementary information

| Cell type | Correction factor | Corrected turgor (mosmoles) | | | | | | | | | t-test p-value | |
|-----------|-------------------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|------|
| | | Replicate | | | | | | | | Mean | | S.D. |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| E | 0.7 | 1465.6 | 1160.8 | 953.6 | 1177.6 | 1177.6 | 1105.5 | 1121.2 | 1122.9 | 1160.6 | 142.7 | 0.4 |
| R | 0.6 | 1622.7 | 1220.7 | 1002.8 | 1238.4 | 1238.4 | 1162.5 | 1166.8 | 1180.9 | 1229.2 | 176.1 | |

Supplementary Table S1 : Turgor measured in E and R cell types, using the « limit plasmolysis » technique.