|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |  Socaire |   |   |   |   | Faro |   | ¤ | \* | x |
|   | HN |  | LN |  |  | HN |  | LN |  | Landraces | N  | L x N |
| Leaf protein (mg FW-1) | 11.0 | ± | 1.8 |   | 12.3 | ± | 2.2 |   |   | 15.7 | ± | 1.6 |   | 5.5 | ± | 0.3 |   | 0.52 | 0.03 | 0.01 |
| Root protein (mg FW-1) | 1.00 | ± | 0.12 |  | 1.33 | ± | 0.21 |  |  | 1.02 | ± | 0.06 |  | 0.98 | ± | 0.05 |  | 0.22 | 0.29 | 0.19 |
| Chl *a (*µg FW-1*)* | 82.8 | ± | 7.6 |   | 34.7 | ± | 2.9 |   |   | 95.0 | ± | 16.3 |   | 23.1 | ± | 1.7 |   | 0.97 | <0.001 | 0.22 |
| Chl *b* (µg FW-1) | 26.6 | ± | 3.5 |  | 10.0 | ± | 0.7 |  |  | 26.4 | ± | 4.2 |  | 7.0 | ± | 0.5 |  | 0.58 | <0.001 | 0.62 |
| Chl *a* /Chl *b* | 3.2 | ± | 0.04 |   | 3.5 | ± | 0.02 |   |   | 3.6 | ± | 0.02 |   | 3.3 | ± | 0.023 |   | 0.16 | 0.91 | 0.01 |
| Fv/Fm | 0.76 | ± | 0.02 |  | 0.8 | ± | 0.02 |  |  | 0.8 | ± | 0.01 |  | 0.8 | ± | 0.004 |  | 0.33 | 0.44 | 0.27 |
| NPQ | 0.22 | ± | 0.03 |   | 0.6 | ± | 0.11 |   |   | 0.3 | ± | 0.11 |   | 0.5 | ± | 0.305 |   | 0.96 | 0.07 | 0.74 |
| qL | 0.60 | ± | 0.07 |  | 0.6 | ± | 0.06 |  |  | 0.8 | ± | 0.03 |  | 0.5 | ± | 0.121 |  | 0.88 | 0.20 | 0.06 |
| Root NR activity (nmol NO2- mg-1 h-1) | 46 | ± | 6 |   | 119 | ± | 62 |   |   | 47 | ± | 9 |   | 132 | ± | 16 |   | 0.84 | 0.04 | 0.86 |
| Root GS activity (nmol Glu mg-1 h-1) | 5.6 | ± | 0.4 |  | 9.2 | ± | 0.7 |  |  | 3.4 | ± | 0.2 |  | 10.0 | ± | 3.4 |  | 0.71 | 0.02 | 0.43 |
| Root *CqNR* expression (fold change) | 1.0 | ± | 0.0 |   | 5.5 | ± | 0.7 |   |   | 2.6 | ± | 0.3 |   | 1.0 | ± | 0.1 |   | 0.01 | 0.00 | <0.001 |
| Root *CqGLN* expression (fold change) | 1.01 | ± | 0.13 |   | 1.84 | ± | 0.55 |   |   | 1.36 | ± | 0.23 |   | 1.549 | ± | 0.04 |   | 0.92 | 0.13 | 0.32 |