**Table S1.** Physiological and chemical changes in *M. bealei* leaves exposed to UV-B treatment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group** | ATP content(mol/g FW） | POD activity(U/g DW) | SOD activity (U/mg prot） | T-AOC(U/mg prot) | PAL activity(U /g FW\*min) |
| **Control** | 2.33±0.0958 | 420.72±4.6096 | 190.25±24.4298 | 34.79±3.7219 | 135.33±1.2496 |
| **UV-B** | 3.20±0.0524 | 443.36±7.7504 | 365.78±8.0512 | 49.3±2.0751 | 151.51±5.8721 |
| **Group** | MDA content (nmol/g FW) | H2O2 content （mmol/gprot) | Chlorophyll content (mg/L) | Carotenoid content (mg/L) | BR content (nmol/L) |
| **Control** | 44.33±1.1238 | 50.48±4.7681 | 5.96±0.1075 | 2.48±0.0457 | 57.64±3.9550 |
| **UV-B** | 49.11±0.8559 | 68.12±2.2914 | 6.59±0.3568 | 2.73±0.1486 | 78.71±4.4495 |
| **Group** | Total flavonoid contents(mg/g DW) | Anthocyanin content（U/g DW） | Total alkaloid content (mg BE/g FW) |
| **Control** | 0.23±0.0021 | 0.1394±0.0017 | 2.19±0.0672 |
| **UV-B** | 0.26±0.0098 | 0.1491±0.0066 | 2.46±0.0085 |