

Table S1 *Helleborus odorus* and *H. niger* sepal reflectance and transmittance in the different regions of the spectrum for the different developmental phases.

| Traits | Species and developmental phase | | | | | |
|--------------------------|---------------------------------|-----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|
| | Developing phase | | Flowering phase | | Fruiting phase | |
| | <i>H. odorus</i> | <i>H. niger</i> | <i>H. odorus</i> | <i>H. niger</i> | <i>H. odorus</i> | <i>H. niger</i> |
| Reflectance (%) | | | | | | |
| UV-B | 13.08 ± 1.77 ^b | 10.36 ± 1.14 ^a | 14.39 ± 2.01 ^c | 11.10 ± 0.81 ^a | 14.83 ± 1.76 ^c | 10.45 ± 0.73 ^a |
| UV-A | 9.39 ± 1.29 ^b | 8.23 ± 0.70 ^a | 10.79 ± 1.31 ^c | 9.16 ± 0.49 ^b | 10.96 ± 1.28 ^c | 7.85 ± 0.42 ^a |
| Violet | 7.66 ± 1.00 ^a | 25.57 ± 6.98 ^b | 7.90 ± 1.02 ^a | 30.28 ± 3.64 ^c | 8.92 ± 1.04 ^a | 9.43 ± 1.14 ^a |
| Blue | 8.77 ± 1.19 ^a | 33.18 ± 10.41 ^b | 9.11 ± 1.81 ^a | 38.76 ± 4.95 ^c | 9.13 ± 0.86 ^a | 11.09 ± 1.65 ^a |
| Green | 22.53 ± 3.31 ^{ab} | 31.10 ± 12.12 ^{cd} | 22.08 ± 3.63 ^{ab} | 36.25 ± 5.69 ^d | 19.94 ± 1.87 ^a | 26.10 ± 3.17 ^{bc} |
| Yellow | 19.77 ± 3.55 ^{ab} | 36.45 ± 10.11 ^c | 20.09 ± 3.77 ^{ab} | 39.28 ± 4.38 ^c | 16.78 ± 1.51 ^a | 24.24 ± 3.00 ^b |
| Red | 13.18 ± 2.41 ^a | 46.33 ± 5.39 ^d | 13.74 ± 2.64 ^a | 43.04 ± 3.42 ^c | 11.80 ± 0.93 ^a | 17.21 ± 2.35 ^b |
| NIR | 43.84 ± 2.72 ^{ab} | 49.93 ± 4.36 ^b | 37.98 ± 2.09 ^a | 42.78 ± 3.43 ^{ab} | 78.43 ± 1.81 ^c | 71.17 ± 22.4 ^c |
| Transmittance (%) | | | | | | |
| UV-B | 0.07 ± 0.07 ^a | 2.65 ± 7.97 ^a | 0.16 ± 0.05 ^a | 0.26 ± 0.09 ^a | -0.02 ± 0.10 ^a | -0.04 ± 0.09 ^a |
| UV-A | 0.06 ± 0.05 ^a | 0.43 ± 0.28 ^a | 0.10 ± 0.10 ^a | 2.82 ± 4.92 ^b | -1.05 ± 3.15 ^a | 0.10 ± 0.44 ^a |
| Violet | 0.88 ± 0.52 ^a | 22.81 ± 7.18 ^b | 0.65 ± 0.35 ^a | 33.62 ± 6.83 ^c | 0.41 ± 0.32 ^a | 2.36 ± 1.02 ^a |
| Blue | 3.05 ± 1.75 ^a | 32.73 ± 9.83 ^b | 2.16 ± 0.94 ^a | 45.98 ± 8.83 ^c | 1.25 ± 0.73 ^a | 4.81 ± 1.77 ^a |
| Green | 25.42 ± 7.02 ^b | 35.34 ± 13.15 ^c | 22.14 ± 2.79 ^b | 47.22 ± 8.28 ^d | 15.20 ± 3.24 ^a | 21.48 ± 3.83 ^{ab} |
| Yellow | 23.60 ± 7.99 ^b | 42.20 ± 12.44 ^c | 21.54 ± 2.99 ^b | 52.47 ± 9.14 ^d | 13.43 ± 3.35 ^a | 21.52 ± 3.44 ^b |
| Red | 13.17 ± 5.70 ^{ab} | 51.10 ± 12.90 ^c | 11.73 ± 2.11 ^{ab} | 56.92 ± 8.47 ^c | 6.77 ± 2.17 ^a | 13.87 ± 2.71 ^b |
| NIR | 65.86 ± 6.69 ^b | 62.45 ± 12.58 ^{ab} | 56.74 ± 3.84 ^a | 60.38 ± 6.01 ^{ab} | 58.78 ± 3.42 ^a | 59.60 ± 3.38 ^{ab} |

Data are means ± SD; n = 10

Different superscript letters within each row indicate significant differences between the means ($p \leq 0.05$; Duncan's tests)

Reflectance and transmittance spectra represent means within 5-nm intervals ($p \leq 0.05$; Duncan's tests)

NIR, near infrared