

**S1 Table: Wet weight accumulation factors AF of selenate into plant tissue in all three experimental set-ups (AF [-] =  $c(\text{Se})_{\text{medium}} [\text{mg/L}] / c(\text{Se})_{\text{plant}} [\text{mg/kg}]$ )**

| c(Se)<br>[µ/L] | Nutrient-free, direct Se-uptake |           |             |           | Nutrient-free, Se-uptake delayed |           |             |           | Nutrient solution, Se-uptake delayed |           |             |           |
|----------------|---------------------------------|-----------|-------------|-----------|----------------------------------|-----------|-------------|-----------|--------------------------------------|-----------|-------------|-----------|
|                | shoot<br>[-]                    | SD<br>± s | root<br>[-] | SD<br>± s | shoot<br>[-]                     | SD<br>± s | root<br>[-] | SD<br>± s | shoot<br>[-]                         | SD<br>± s | root<br>[-] | SD<br>± s |
| 5              | 274                             | 26        | 108         | 6         | 376                              | 15        | 165         | 10        | 27                                   | 21        | 22          | 38        |
| 10             | 263                             | 31        | 99          | 2         | 332                              | 20        | 192         | 21        | 16                                   | 3         | 8           | 9         |
| 25             | 390                             | 196       | 130         | 41        | 297                              | 8         | 144         | 12        | 21                                   | 2         | 10          | 8         |
| 50             | 465                             | 42        | 155         | 22        | 644                              | 23        | 373         | 9         | 27                                   | 10        | 13          | 5         |
| 100            | 514                             | 55        | 175         | 13        | 786                              | 33        | 459         | 27        | 19                                   | 8         | 10          | 5         |
| 250            | 366                             | 42        | 132         | 35        | 779                              | 35        | 416         | 17        | 41                                   | 13        | 20          | 11        |
| 500            | 94                              | 59        | 80          | 32        | 651                              | 48        | 427         | 15        | 40                                   | 11        | 22          | 3         |
| 1000           | 25                              | 6         | 37          | 11        | 478                              | 26        | 434         | 15        | 53                                   | 19        | 26          | 14        |
| 2500           | 8                               | 2         | 13          | 5         | 50                               | 6         | 123         | 5         | 41                                   | 9         | 23          | 8         |