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| KWALITEITSMANAGEMENTSYSTEEM Centrum voor Genetische Bronnen Nederland | **wur_beeldmerk_color** |
| **ADV-CGN-PG-126 GERMINATION ADVICE FOR WILD RELATIVES OF SPINACH** | PGR  ADV-CGN-PG-126 Versie: 2  Pagina: 1 van 1  Afgifte: 28-02-2019 |

**ADV-CGN-PG-126 GERMINATION ADVICE FOR WILD RELATIVES OF SPINACH**

Wild *Spinacia* species are very sensitive to day length. Excessive light should be avoided during growing in order to prevent shooting during the seedling stage.

Seed dormancy is quite common for wild relatives of cultivated spinach. The following suggestions can be presented to enhance seed germination:

***S. turkestanica***

* Break the seed clusters without damaging the seeds.
* Rinse the seeds in running tap water for three days.
* Sow the seeds in soil and place the trays in the dark at 4°C for 3-5 days.
* Place the trays at 15-20°C in a greenhouse for two weeks, or under cold/warm uncontrolled but frost-free conditions (short day).
* Depending on the germination result, repeat the temperature treatment of the previous two steps 1-2 times.

***S. tetrandra***

* Rinse the seed clusters in 50°C water for 30 minutes.
* Cool the clusters down in running tap water for 10 minutes
* Sterilize in 4% chloride solution for 24 hours.
* Rinse three times in sterile water.
* Dissect the seed clusters into separate seeds.
* Incubate in 4°C water for 5 days (can also be performed prior to previous step).
* Germinate *in vitro* at 15°C or sow directly in soil.
* Raise plants under short day conditions.