

# PROPAGATION PROTOCOL

*Azorina vidalii*

CAMPANULACEAE



Secretaria Regional do  
Ambiente e Alterações  
Climáticas



**Last Update:** 21/01/2020

**Ecology:** Coastal cliffs, rocky beaches, steep slopes with sand deposits, always in extremely exposed habitats. Perennial. Flowering period IV-IX.

**Propagation method:** seed germination in trays.

**Objective:** In active Growth : 10-15cm of weight, plantable and healthy root.

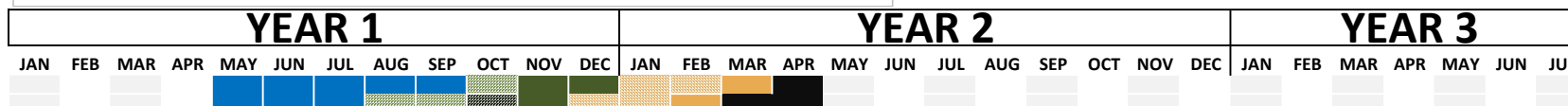
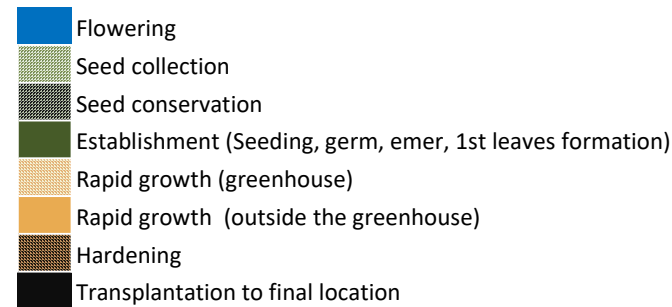
**Material:**

- Trays of germination with 40 holes;

- Germination substrate: 50% organic germination substrate (Siro Germ) + 50% sieved (3mm) volcanic lapili;

- **Duration:** 6 months.

**% success:** 80%



**Seed collection:** Collect the dry capsules. The seeds from this species are extremely small. It should be done from August to October.

**Seed conservation:** Due to the size of the seeds there is no need for treatment (only the remnant parts of capsules must be removed). Seeds are dehydrated at 15°C and 15% humidity. The seeds can be sown directly or preserved at 4°C until sowing. Seeds can be conserved at these conditions for 3-4 years.

**Germination:** 80% after 20 days; First plants after 15 days

**Seeding:** November/December. Seeds shall be properly spaced. A frequent mistake is to sow with extremely high densities. Better method is to put a few seeds in a white paper, banded on the middle and sowing using sharp object, seed by seed. Seeds should be left at surface of substrate. Irrigate abundantly after sowing. Apply Nutriquisa 12-4-6, 20ml/m<sup>2</sup> in a watering can with germination. Remove shading net.

**Establishment:** Trays inside the greenhouse with frequent but not excessive irrigation. 10 minutes day at 18:00h. Cut irrigation for 2 days if brown algae start to appear. Not shaded place. Salt water application didn't show any results in algae control. It takes 1,5-2 months until Rapid Growth starts.

**Rapid growth: Inside the greenhouse:** Plants shall be kept in the greenhouse for about two months, maintaining the sprinkler irrigation. Plants do not need to be always moist.

**Transplant:** When plants have 4-5 true leaves, it is possibly necessary to transplant multiples growing in the same container box. Transplant should be done for identical trays. Water abundantly in first days after transplanting.

**Hardening: Outside the greenhouse:** plants with about 8cm are taken to a unshaded area outside; the irrigation frequency is reduced. Duration: 1 month.

**Fertilizing:** 12-4-6, 20ml/m<sup>2</sup> in a watering can with germination; During the hardening phase, apply K-enriched liquid fertilizer (5-8-10) every 15 days.

**Phytosanitary treatments:** During the establishment phase, apply treatment against slugs and snails. Use granular molluscicide (preferably organic). Good practice to observe plants every day, looking under the trays for slugs and snails. These plants are most vulnerable during the development of the first leaves.

Apply Spintor preventively (25ml/5l water) for phitofagy (leaves and stems are cutted), 15-15 days from 10 days after sowing.

**References:** Germination protocols from project ZEPHYR - Zero-impact innovative technology in forest plant production (Project ID: 308313)

LIFE VIDALIA has received funded from the LIFE Programme of the European Union

