



TORENIA CULTURE GUIDE (1)

Torenia F1 VERTIGO

"Vertigo" has a compact habit, is continuously flowering, and has glossy green foliage. The large blooms do not fade even when exposed to strong sunlight. Vertigo is ideally suited to hot, humid, tropical, sub-tropical, Summer growing conditions.

Scientific name	: <i>Torenia fournieri</i>
Use	: Pots, Bedding and Landscaping
Plant Type	: Annual
Seed count	: 16,000 Natural Seeds /gram
Seed form	: Pelleted

● Plug Production :



Sow seeds on top of peatmoss Media with pH of 5.5-5.8 and EC of 0.5-0.75 mS/cm. Use 288 cell tray with 1 seed per cell. Seeds do not need to be covered.

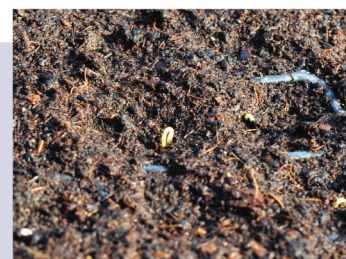
Use Propamocarb hydrochloride at the rate of 1 cc/1 liter of water and spray on top of the tray to prevent fungus disease.

Temperature

Optimal temperature for germination is 22-25 °C (72-77 °F) with a moisture level of 4.

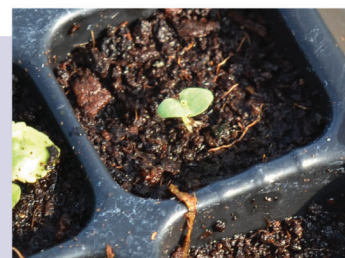
Stage 1

Radical emergence takes 3-4 days Light is not required for germination. Keep media moisture at level 4 and temperature at 22-25 °C (72-77 °F) No need to apply fertilizer at this stage.



Stage 2

Stem elongation and cotyledons expansion take 5-7 days. Extra light can be used at up to 2,500 f.c. (26,900 lux). Keep media moisture at level 3. Apply fertilizer at 50-75 ppm N and EC of 0.5-0.75 mS/cm.



Stage 3

Development of first true leaves takes 8-15 days. Extra light at 2,500 f.c. (26,900 lux) can be applied whilst keep media moisture level 3.

Allow media to approach level 3 before next irrigation. Over saturated media will encourage the development of weak root system and disease. Feed fertilizer 1-2 times per week at 75-125 ppm N and EC of 0.5-0.75 mS/cm.



Stage 4

4-5 true leaves takes 12-30 days. Keeps light at 2,500-5,000 f.c. A growth regulator is not required.

At this stage, plugs should have a good root system that binds the media. Do not hold the plugs too long before transplanting, as this may cause stunted plants.





TORENIA CULTURE GUIDE (2)

Plant Characteristics :

Sowing to transplant	25-30 days
Transplant to 1st flower	40-45 days
Flower size	2.5-3 cm.
Plant height	20-25 cm.
Plant width	20-25 cm.

Plug Stage	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3	Level 3	Level 3
Temperature	22-25 °C	20-25 °C		
Light	No Need	Up to 2,500 f.c. (26,900 lux)		2,500-5,000 f.c. (53,800 lux)
Fertilizer	No Need	50-75 ppm N	75-125 ppm N	

Transplanting Stage :

Plugs can be transplanted into containers or beds 25-30 days after sowing. Torenia Vertigo prefers a slightly acid growing media pH 5.5-6.0.

Recommended Container size :

Pot Size & Plants Per Pot

4" Pot : 1 plant
6" pot : 3 plants
8" pot : 4 plants



Growing on Stage :

Temperature : The ideal temperature Torenia is 20-25 °C (68-77 °F) during the day and 20-25 °C (68-77 °F) at night.

Daylength Requirements : Torenia Vertigo is daylength neutral.

Fertilizer : 100-150 ppm N (E.C. of 1.0-1.5 mS/cm.)

Apply fertigation once a day for 6 days. On the 7th day, use pure water to flush out accumulated salts.

Irrigate once a day in the morning. Do not irrigate after 2 pm as this may cause high media moisture and increase disease risk. Allow media surface to dry slightly between watering to improve rooting. When flowers appear, do not allow irrigation water to contact the petals or flowers.

Growing on Stage : Optimal N-P-K ratio 2:1:3

Apply this fertigation once a day for six days. On the 7th day, use only water to flush out accumulated salts.

N: P: K

Liquid Fertilizer	(rate per 100 liter of water)	Application
15-0-0 (Calcium Nitrate)	140 Grams	Once a day for 6 days
0-52-34 (Mono Potassium Phosphate)	66 Grams	
13-0-46 (Potassium nitrate)	69 Grams	
Ferrous Sulphate	25 Grams	
Solute (Micronutrient)	5 Grams	

Pest & disease :

Botrytis, powdery mildew, aphids and whiteflies.

Pinching : Not Necessary

Plant growth regulators (PGRs) :
Not Necessary

Moisture level :

Media moisture levels should alternate between levels 2 and 4.