Antirrhinum majus F1 — Cultivation manual

Cut flower culture

Culture location: greenhouse/open field
Sowing method TP
Sowing season yearround (greenhouse)

Germ temp. 18-21°C (65-70°F)
Growing temp. variable (see notes)

Plug crop time 4 - 5 weeks

Crop duration
8-12 weeks from planting
(winter: 16 to 20 weeks)

Seed requirement
0,3 gr for 1000 plants
1 seed per plug

Pests/diseases
Aphids, caterpillars, miners, true and downy mildew, Rhizoctonia and rust. A preventative fungicide program is advised.

Fertilization (f)
- Moderate requirement, apply regularly.
- At bud formation stage, extra potassium nitrate is required.
- Antirrhinum is very sensative to high salts and high ammonium levels.
- High media pH (>6.5) may cause boron and iron deficiency.

Sowing details

Pre-sow and transplant (TP):
Initial sowing media: pH 5.5 – 5.8
EC < 0.75 mmhos/cm
Sow : 1 seed per plug (tray 288)
Cover: light cover with coarse vermiculite

Days 0 - 5
(m) moist to wet
(t) 18-21°C (65-70°F)
(l) optional:
100 – 1,000 lux (10 - 100 fc)

Days 6 - 18
(m) normal
(t) 16-18°C (60-65°F)
(l) 11.000-27.000 lux (2500-5000 fc)
(f) 25-50 ppm N, < 0.7 EC

Days 19 - 24
(m) normal to dry
(t) 16-18°C (60-65°F)
(l) 11.000-27.000 lux (1000-2500 fc)
(f) < 100 ppm N, < 0.7 EC

Days 25 >
(m) normal to dry
(t) 16°C (60°F)
(l) 27.000-54.000 lux (2500-5000 fc)
(f) 100 to 175 ppm N, 0,7 to 1,2 EC

Growing on

Soil/media
pH 5.5 – 5.8, EC < 0.75 mmhos/cm

Netting
Netting is advised. Lift regularly.

Pinching
Pinching is not recommended.

Plants density
40-64 plants per gross m^2 (or up to 85-110 pl/m^2 depending on light levels).

Moisture (m)
As soon as the buds have formed, irrigation should be reduced.

Temperature (t)
Optimum temperature: see note.
Low temperatures improve crop quality.
In winter: 6 - 8°C (42-48°F).
An active climate and horizontal airflow are recommended.

Light (l)
Optimum day light levels per group:
Grp I: 11,000 - 27,000 lux (1000-2500 fc)
Grp II: 16,000 - 32,000 lux (1500-3000 fc)
Grp II-III: 20,000 - 38,000 lux (1900-3500 fc)
Grp III-IV:27,000 - 54,000 lux (2500-5000 fc)
Grp IV: 32,000 - 54,000 lux (3000-5000 fc)

Cultivation tips

- Crop duration strongly depends on cultivation method, daylength and temperature.
- Flower initiation occurs when young plants have more than 5-10 pairs of leaves.

Notes

Optimum growing temperature:
- Group I day: 10-13°C (50-55°F)
  night: 7 - 10°C (45-50°F)
- Group II: day: 13-16°C (55-60°F)
  night: 10-13°C (50-55°F)
- Group II-III: day: 14-18°C (57-65°F)
  night: 13-16°C (55-60°F)
- Group III-IV: day:16-18°C (60-65°F)
  night: > 16°C (>60°F)
- Group IV: day: > 18°C (>65°F)
  night: > 16°C (>60°F)

Harvest

- Harvest when 2 or more buds have opened (winter: 4 to 6 buds). Remove lower leaves. Place upright in water immediately. Cool storage.

For post harvest treatments, see:
www.vbn.nl/en/list-pre-treatments/

This information is for general guidance only, and is in some cases specific for North European conditions.
No guarantee is given for the result of the crop, nor is liability accepted for the consequences of applying the indications given.

More information: evanthia.nl | sales@evanthia.nl