

Antirrhinum majus

*Snaplastic Red*TM

61-2716

Minimum Germination Rate: 85%

Seed Product Form: pelleted

Container size: 4- 6 inch pots, quarts, gallons

Habit: Upright

Garden Specifications

Garden height:

14" – 16"

Garden width:

12" - 14"

Light:

Full sun /Part shade

Product use:

Beds, mass planting, containers, mixed combinations.

Germination

Germination time: 3-5 days

Media temperature: 72-75 °F (22-24°C)

Chamber: Optional

Light: Not required for germination

Seed Cover: Light vermiculite

Moisture Level: 4 (wet) day 1-5

Recommended tray size: 288- cell tray

Seeds per cell: 1 seed

Young Plant Production

Temperature:

Day 64-68 °F (18-20°C)

Night 64-68 °F (18-20°C)

Lighting:

- Recommended day length > 14 hours
- Light intensity 2000-3000 foot candles (400-600 micro mols)
- Day length response; facultative long day.
- Daily light integral; >10 mols/day

Media pH: 5.4 – 6.2

Media EC: 0.5 – 1.0 mS/cm

Fertilizer: 50-100 ppm Nitrogen

Pinching: No

Moisture level:

Alternate between a level 4 (wet) and level 3 from radicle emergence until cotyledon expansion, and then allow soil to dry back to a level 2 (medium).

Plant Growth regulators (PGRs):

If needed, spray applications of B-Nine (daminozide) @ 2500-3750 ppm, Bonzi (paclobutrazol) @ 5-8 ppm, or A-Rest (ancymidol) @ 2-4 ppm are effective to tone plugs.

Plug Time: 5-6 weeks for a 288-cell tray.

Tech tips:

High pH levels (above 6.2) may promote iron deficiency causing chlorotic young leaves. Overly wet conditions or watering late in the day can cause shoot tip abortion.

Finishing

Temperature:

Day 60-70 °F (16-21 °C)

Night 55-60 °F (13-16 °C)

Average daily temperature: 55-65 °F (13-18 °C)



Lighting:

- Recommended day length ; > 14 hours
- Light intensity; >4.500 foot candles (>900 micro mols)
- Day length response; Facultative long day.
- Day light integral; > 15 mols/day.

Media pH: 5.4-6.2**Media EC:** 1.0-1.5 mS/cm**Fertilizer:** 150-200 ppm Nitrogen**Pinching:** No**Moisture level:**

Alternate between a level 4 (wet) and level 2 (medium). Allow soil to dry to a level 2 (medium) before irrigating up to a level 4 (wet).

Plant growth regulators:

If needed, spray 1-2 applications of B-Nine (daminozide) at 3,500-5,000 ppm, Bonzi (paclobutrazol) at 15-20 ppm, or Sumagic (uniconazole) at 10-15 ppm. Do not apply Bonzi drenches after visible bud stage to prevent clubby flowers.

Pest: Thrips, aphids and spider mites.**Diseases:**

Botrytis, downy mildew, powdery mildew, Pythium, rust, TSWV and INSV.

Scheduling

Container size	Crop time after transplant (weeks)	Plants per pot
4 to 5 inch pots, quarts	7-8	1
6 inch pots, gallons	7-8	1-2

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 65 °F (18 °C).

Tech tips:

Providing supplemental lighting to 14 hours or longer will hasten flowering when light levels are less than 10 mol/day and day length is less than 14 hours.

Example crop schedule for 6 inch pots

Week 1:	Sow into 288 or similar plug tray.
Week 2:	Lower temperature to 64-68 °F (18-20°C) once cotyledons have expanded.
Week 4:	PGR spray B-Nine or Bonzi to tone plugs.
Week 5:	Transplant one to two plugs per pot for 6 inch pots and finish at 65 °F ADT.
Week 9:	PGR as needed, spray PGRs recommended in finished culture notes.
Week 12-13:	Finish

Moisture Level	Description
1 Dry	Soil is tan to gray in color, trays are extremely light, soil pulls away from sides of container.
2 Medium	Soil is light brown in color, no water can be extracted and soil will crumble apart.
3 Moist	Soil is brown in color, strongly squeezing the soil will extract a few drops of water and trays are light with no visible bend.
4 Wet	Soil is dark brown but <u>not</u> shiny, no free water is seen at the surface of the soil. When pressed or squeezed water drips easily and trays are heavy with visible bend in the middle.
5 Saturated	Soil is dark brown and shiny, free water is present at the surface of the soil. Water drips freely from bottom of tray and they are heavy with a visible bend in the middle.

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