Snaptastic™ Snapdragon
Culture Guide

*Antirrhinum majus*

Minimum seed germination rate: 85%
Product form: Pelleted, raw
Container size: 4- to 6-inch pots, quarts, gallons
Habit: Upright

**Garden Specifications**

Garden height: 14”–16”
Garden width: 12”–14”
Light: Full sun
USDA Hardiness Zone: 9–11
AHS Heat zone: 12-1
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

**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:** 2,000–3,000 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, then allow soil to dry back to a level 2 (medium).

**Plant growth regulators (PGRs):** If needed, spray applications of B-Nine® (daminozide) @ 2500–3750ppm, 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
- Daily 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.

Pests: Thrips, aphids, spider mites
Diseases: Botrytis, downy mildew, powdery mildew, Pythium, rust, TSWV, INSV

Scheduling

<table>
<thead>
<tr>
<th>Container size</th>
<th>Crop time after transplant (wks)</th>
<th>Plants per pot</th>
</tr>
</thead>
<tbody>
<tr>
<td>4- to 5-inch pots, quarts</td>
<td>7–8</td>
<td>1</td>
</tr>
<tr>
<td>6-inch pots, gallons</td>
<td>7–8</td>
<td>1–2</td>
</tr>
</tbody>
</table>

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 mols/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 from soil, soil will crumble apart.
3 MOIST Soil is brown in color, strongly squeezing the soil will extract a few drops of water, trays are light with no visible bend.
4 WET Soil is dark brown but not shiny, no free water is seen at the surface of the soil, when pressed or squeezed water drips easily, trays are heavy with a 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, trays are heavy with a visible bend in the middle.