

Snapdragon Liberty™ Classic

Culture Guide

Botanical name: *Antirrhinum majus*

Product form: Seed

Containers: Quarts, Gallons

Habit: Upright

Garden Specifications

Garden Height: 18–22" (45–55 cm) tall

Garden Width: 12–14" (30–35 cm) wide

Exposure: Full sun

USDA zone: 9–11

AHS zone: 12–1

Product use: Containers, Landscapes, Patio Pots, Combos

Germination

Stages 1 & 2

Germination time: 5 days

Media temp: 72–75 °F (22–24 °C)

Chamber: Optional

Light: Not required for germination

Seed cover: Yes

Moisture level: 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, and trays are heavy with a visible bend in the middle.

Rec. tray size: 288-cell tray

Seeds per cell: 1

Young Plant Production

Stages 3 & 4

Temperature

Day: 66–68 °F (19–20 °C)

Night: 66–68 °F (19–20 °C)

Average daily temperature: 67 °F (19 °C)

Lighting

Day extension lighting: Beneficial to 14 hours

Light intensity: 2,000–3,000 foot candles (400–600 micro mols)

Day length response: Facultative long day

Daily light integral: 10–12 mols/day

Media pH: 5.5–5.9

Media EC: SME 0.5 to 0.75 mS/cm

Fertilizer: 50–75 ppm N

Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

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, and trays are heavy with a visible bend in the middle.

Pinching: No

Plant growth regulators (PGRs): If needed spray applications of B-Nine at 2,500–3,750 ppm, Bonzi at 5–8 ppm or A-Rest at 2–4 ppm are effective to tone plugs.

Plug grow time: 6–7 weeks in a 288-cell tray

Comments: 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. Keeping the media too wet can also lead to root rot diseases such as Pythium.

Finishing

Temperature

Day: 64–66 °F (18–19 °C)

Night: 56–58 °F (13–14 °C)

Average daily temperature: 60 °F (20 °C)

Lighting

Day extension lighting: Beneficial to 14 hours

Light intensity: 4,000–6,000 foot candles

Day length response: Facultative long day

Daily light integral: 14–16 mols/day

Transplanting: Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure that the root ball is covered and that the plug is situated in the center of the pot. Snapdragons have relatively weak root systems so it is best to dislodge the plugs prior to pulling from the plug tray.

Media pH: 5.5–5.9

Media EC: SME EC: 0.9–1.3 mS/cm, PourThru EC: 1.4–2.0 mS/cm

Fertilizer: 125–175 ppm N

Pinching: No. Pinching is not recommended or needed.

Plant growth regulators (PGRs): Spray applications of B-Nine® WSG at 2,500–5,000 ppm, Bonzi® at 15–20 ppm or Sumagic® at 10–15 ppm are effective to control growth; 1–2 applications are usually sufficient. Do not apply Bonzi® drenches after visible buds to prevent clubby flowers.

Tech tip: Handle plugs gently when transplanting since Snapdragons have relatively weak root systems. Do not bury the stem to avoid stem rot diseases. Control Thrips to avoid TSWV or INSV infections. For early crops grown under short days, provide day extension lighting. Grow cool and under high light for the strongest stems.



Try Chrysal Alesco®, a postharvest foliar spray, to protect ethylene sensitive crops during shipping and retail

Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 4.

2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

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, and trays are heavy with a visible bend in the middle.

Common pests: Thrips, Aphids, Spider mites

Common diseases: Botrytis, Downy mildew, Powdery mildew, Pythium, Rust, Tosspovirus (INSV and TSWV)

Scheduling

Size	Crop Time	Plants Per Pot
1.0 quart (4.5 to 5 inch)	10–12 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	10–12 weeks	2–3 ppp
3.0 quart to 2.0 gallon (7.5 to 10 inch)	10–12 weeks	3–5 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 60 °F (20 °C).

Example crop schedule for a 1.0 quart

Weeks From Transplant	Description
1 week	Provide day extension lighting if grown under short days
4 weeks	Spray with plant growth regulators (PGRs) if needed
7 weeks	Spray with plant growth regulators (PGRs) if needed
10 weeks	Ready to ship



syngenta®flowers

All photos are either the property of Syngenta or are used with permission.

© 2020 Syngenta. **Important: Always read and follow label instructions. Some products may not be registered for sale or use in all states or counties. Please check with your local Extension Service to ensure registration status. Some or all of the varieties may be protected under one or more of the following: Plant Variety Protection, United States Plant Patents and/or Utility Patents and may not be propagated or reproduced without authorization.** The trademarks or service marks displayed or otherwise used herein are the property of a Syngenta Group Company. All other trademarks are the property of their respective owners.