



syngenta®flowers

# Primula Libre™

## Culture Guide

**Botanical name:** *Primula obconica*

**Product form:** Seed

**Containers:** Quarts, Gallons

**Habit:** Mounded

### Garden Specifications

**Garden Height:** 8–10" (20–25 cm) tall

**Garden Width:** 6–8" (15–20 cm) wide

**Exposure:** Part shade

**USDA zone:** 11

**AHS zone:** 4–1

**Product use:** Containers, Landscapes, Combos

### Germination

Stages 1 & 2

**Germination time:** 7 days

**Media temp:** 72–75 °F (22–24 °C)

**Chamber:** Optional

**Light:** Not required for germination

**Seed cover:** Yes

**Moisture level: 5 - SATURATED:** Soil is dark brown and shiny, free water is present at the surface of the soil, water drips freely from the bottom of the tray, 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:** Not necessary

**Light intensity:** 3,000 foot candles (600 micro mols)

**Day length response:** Facultative short 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 3 and 4.

**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 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 with B-Nine® WSG at 2,500–5,000 ppm.

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

**Comments:** Control Thrips to avoid Tospovirus.

### Finishing

#### **Temperature**

**Day:** 62–64 °F (17–18 °C)

**Night:** 60–62 °F (16–17 °C)

**Average daily temperature:** 62 °F (17 °C)

#### **Lighting**

**Day extension lighting:** Not necessary

**Light intensity:** 2,000–4,000 foot candles

**Day length response:** Facultative short day

**Daily light integral:** 10–12 mols/day

**Transplanting:** Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure the root ball is covered and that the plug is situated in the center of the pot.

**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:** 75–125 ppm N

**Pinching:** No. Pinching is not recommended or needed.

**Plant growth regulators (PGRs):** If needed, sprays of B-Nine® WSG at 2,500–5,000 can be effective.

**Tech tip:** Control Thrips to avoid Tospovirus.



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

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**Common pests:** Whiteflies, Leafminers, Aphids, Thrips

**Common diseases:** Pythium, Tospovirus

## Scheduling

Size	Crop Time	Plants Per Pot
1.0 quart (4.5 to 5 inch)	8–9 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	10–12 weeks	1 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 62 °F (17 °C).

## Example crop schedule for a 1.25 quart

Weeks From Transplant	Description
1 week	Scout for Thrips. Treat plants if necessary
4 weeks	Apply plant growth regulators (PGRs) if needed
8 weeks	Apply plant growth regulators (PGRs) if needed
11 weeks	Ready to ship



Libre™ Blue Picotee

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