

# Bacopa Calypso™

## Culture Guide

**Botanical name:** *Sutera cordata*

**Product form:** Vegetative

**Containers:** Pints, Quarts, Gallons, Hanging Baskets

**Habit:** Trailing/Spreading

### Garden Specifications

**Garden Height:** 6–8" (15–20 cm) tall

**Garden Width:** 14–16" (35–40 cm) wide

**Exposure:** Full Sun

**USDA zone:** 10–11

**AHS zone:** 9–3

**Product use:** Containers, Hanging Baskets, Landscapes, Patio Pots, Combos

### Propagation of Unrooted Cuttings

**Root emergence:** 6–8 days

**Rooting hormone:** Not Recommended

**Bottom heat temp.:** 70–74 °F (21–23 °C) for the first three weeks. After roots are well developed, temperatures can be lowered to hold and tone the cuttings.

**Misting:** Mist schedules vary depending on light and temperature conditions. Apply just enough moisture to rehydrate the cuttings and keep them from wilting. Cuttings should be hydrated and in a non-wilted stage within 24 hours after sticking. Cuttings that continue to wilt heavily after 24 hours will callus unevenly and will be delayed in rooting. CapSil® (spray adjuvant) can be sprayed on the cuttings at a rate of 2–4 oz/100 gal within 1–2 days after sticking to help in rehydration of the cuttings. Misting should be significantly reduced after 2–3 days and after cuttings become fully hydrated.

**Rec. tray size:** 105-cell (30 mm) or larger

**Propagation timing:** 3.5–4 weeks for a 105-cell plug; add more rooting time for significantly larger plug sizes

### **Temperature**

**Day:** 72–74 °F (22–23 °C)

**Night:** 72–74 °F (22–23 °C)

### **Lighting**

**Day extension lighting:** Not Necessary

**Light intensity:** 1,000–1,200 foot candles (200–250 micro mols) for the first two weeks after sticking or until root

development occurs. Light levels can be increased up to 3,000 foot candles (600 micro mols) as rooting increases and the cutting matures.

**Day length response:** Day Neutral

**Daily light integral:** 4–6 mols/day for the first two weeks after sticking or until root development occurs. DLI can be increased to greater than 12 mols/day after root formation.

**Media pH:** 5.8–6.2

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

**Fertilizer:** Begin fertilization at 100 ppm N when roots become visible. Rates can be increased up to 200 ppm N after roots become well developed. Use primarily Cal-Mag® Plus (calcium nitrate + magnesium nitrate) fertilizers in propagation to prevent unwanted stretch. Supplemental feeding with additional iron (i.e., iron chelate) will help prevent iron deficiency and leaf tip chlorosis, which sometimes can occur during propagation.

**Pinching:** Recommended

**Plant growth regulators (PGRs):** Calypso has moderate vigor and will generally need a PGR treatment in propagation. To control growth after rooting, a spray of B-Nine® WSG (1,500 ppm) is sufficient. It is also becoming popular for growers to combine Florel® (200 ppm) with the B-Nine® WSG (1,500 ppm) to increase growth control and to improve branching. These Florel® + B-Nine® WSG combo sprays should be applied to actively growing plants. Do not spray B-Nine® WSG or Florel® + B-Nine® WSG tank mixes on stressed or weak cuttings. For all sprays listed above, the mist should be off for a minimum of one hour for the PGR to absorb into the leaf tissue.

### Finishing

#### **Temperature**

**Day:** 70–72 °F (21–22 °C)

**Night:** 62–64 °F (17–18 °C)

**Average daily temperature:** 66–68 °F (19–20 °C)

#### **Lighting**

**Day extension lighting:** Not Necessary

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

**Day length response:** Day Neutral

**Daily light integral:** 16–18 mols/day

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

**Media pH:** 5.8–6.2

**Media EC:** SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2 mS/cm

**Fertilizer:** 125–175 ppm N

**Pinching:** Yes, 1 pinch is recommended 7–10 days after transplant if not previously done in propagation. A second pinch can be given to plants grown in large baskets and containers. This second pinch can occur shortly before a final low-rate Bonzi® drench.

**Plant growth regulators (PGRs):** Calypso has moderate vigor and generally will need chemical growth regulation. Sprays of B-Nine® WSG (1,500–2,500 ppm) can be used to control growth. A tank-mix spray of Florel® (200 ppm) + B-Nine® WSG (1,500 ppm) can also be used to control growth and improve branching early in production. A Bonzi® drench (1 ppm) can be given 3–4 weeks before finishing to achieve toned, high-quality plants.

**Tech tip:** Calypso should be pinched during propagation, which results in a well-branched, mounded plug. Avoid keeping plants too wet and cold early on after transplant, which can result in root rot and tip chlorosis (iron deficiency), especially in large baskets and containers. High DLIs and cool finishing temperatures produce high-quality Bacopa. Plants can be pinched twice for baskets and large containers, which results in full, uniform plants. Monitor media pH and EC closely and avoid high EC levels to prevent damage roots. Do not let plants get extremely dry which results in necrotic foliage and root loss. Calypso has moderate vigor and will generally need a PGR treatment in propagation. To control growth after rooting, a spray of B-Nine® WSG (1,500 ppm) is sufficient. It is also becoming popular for growers to combine Florel® (200 ppm) with the B-Nine® WSG (1,500 ppm) to increase growth control and to improve branching. These Florel® + B-Nine® WSG combo sprays should be applied to actively growing plants. Do not spray B-Nine® WSG or Florel® + B-Nine® WSG tank mixes on stressed or weak cuttings. For all sprays listed above, the mist should be off for a minimum of one hour for the PGR to absorb into the leaf tissue.

are heavy with a visible bend in the middle.

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

**Common diseases:** Botrytis, Fungal root rot

## Scheduling

Size	Crop Time	Plants Per Pot
1.0 pint (4 inch)	6 weeks	1 ppp
1.0 quart (4.5 to 5 inch)	6–7 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	8–10 weeks	1 ppp
3.0 quart to 2.0 gallon (7.5 to 10 inch)	9–11 weeks	2–4 ppp

Estimated finish crop time is from transplant of a 105-cell tray and finished at the recommended average daily temperature of 68 °F (20 °C).

## Example crop schedule for a 1.5 gallon hanging basket

Weeks From Transplant	Description
1 week	Provide average daily temperatures of 68 °F (20 °C) and DLI levels above 15 mols/day. Plants should have been previously pinched during propagation. Apply a preventative broad-spectrum fungicide drench
3 weeks	Apply a tank-mix spray of Florel® (200 ppm) + B-Nine® WSG (1,500 ppm) to control growth and improve branching
5 weeks	Trim (pinch) plants to shape the basket and remove long, uneven branches. Scout for thrips and treat if needed
7 weeks	Apply a Bonzi® drench at 1 ppm
10 weeks	Sale



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**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

syngenta® flowers

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