



## Miss Tilly™

### PLATYCODON GRANDIFLORA

**Minimum Germination Rate:** 90%

**Seed Product Form:** Raw

### FLOWERING

**Flowering Type:** Platycodon grandiflora is day-neutral.

**Specific Flowering Mechanism:** Long days and high light enhance flowering.

### PLUG CULTURE

**Germination:** Optimum conditions for seedling development that begins the day the crop is sown until cotyledon expansion. Expect radicle emergence in 3 – 4 days.

**Cover:** Seeds may be covered with a thin layer of coarse vermiculite to maintain moisture levels.

**Media:** • pH: 5.5 – 6  
• EC: 0.5 – 0.75

**Light:** Light is necessary for germination. Provide a light source of 10 – 100 foot candles (100 – 1,000 lux) if utilizing a chamber.

**Moisture:** Saturated (5) for days 0 – 5 or until radicle emergence. On days 6 – 18 reduce moisture to moist (3) until cotyledon expansion.

**Humidity:** 100% until radicle emergence then reduce to 40 – 70%.

**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

**Temperature:** 68° – 70°F (20° – 21°C) until radicle emergence. Reduce to 65° – 68°F (18° – 20°C) until cotyledon expansion.

**Fertilizers:** Fertigation water should not be greater than an EC of 0.5.

**Plug Bulking:** Optimum conditions during the vegetative period, beginning at cotyledon expansion, needed for the root to reach the edge of the plug cell.

**Media:** • pH: 5.5 – 6  
• EC: 0.75 – 1

**Light:** Maximum 3,000 foot candles (30,000 lux). Avoid direct sunlight.

**Temperature:** 65° – 68°F (18° – 20°C)

**Moisture:** Alternate between moisture levels moist (3) and medium (2). Allow media to approach level (2) before re-saturating to level (3).

**Humidity:** 40 – 70%

**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

**Fertilizers:** Feed established seedlings at 50 – 150 ppm nitrogen with a calcium-based fertilizer (13-2-13 or 14-4-14).

**Growth Regulators:** If necessary apply B-Nine (daminozide) at 1,000 ppm to prevent stretching.

### GROWING ON

**Transplant Ready:** 4 – 5 weeks from sow in a '288' tray. Transplant before plug cells become root bound. Platycodons do not like to be transplanted.

**Finish Bulking/Flower Initiation:** Optimum conditions during the vegetative period, beginning at transplant, needed for the root to reach the edge of the container AND to make the plant receptive to flower initiation.

**Media:** • pH: 5.5 – 6  
• EC: 1

**Light:** Young plants need to be shaded from direct sun. Once established, plants can tolerate higher light levels up to 4,000 foot candles (40,000 lux).

**Temperature:** 55° – 60°F (13° – 18°C) nights; 68° – 75°F (20° – 24°C) days.

**Average Daily Temperature (ADT):** 67°F (19°C)

**Moisture:** Alternate between moisture levels moist (3) and medium (2). Allow media to approach level (2) before re-saturating to level (3).

**Humidity:** 40 – 70%

**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

**Fertilizers:** Constant liquid feed at 200 ppm nitrogen with a nitrate-based fertilizer (17-5-17) to promote a strong root system.

**Growth Regulators:** Apply B-Nine (daminozide) at 1,000 ppm as needed to control plant habit. Higher rates may burn leaf edges. Begin applications 2 – 3 weeks after transplant.

**Common Diseases:** Botrytis

**Common Pests:** Spider Mite

PRODUCT USE	GARDEN SPECIFICATIONS
Pots, containers, rock gardens	<b>Light:</b> Filtered sun to full sun <b>USDA Hardiness Zone:</b> 6 <b>AHS Heat Zone:</b> 9 – 1

	Garden Height	Garden Width
<b>Miss Tilly</b>	6 – 8" (15 – 20 cm)	6 – 8" (15 – 20 cm)

### PLATYCODON SCHEDULING IN WEEKS

	Miss Tilly
<b>Total crop time</b>	14 – 18
<b>'288' plug crop time</b>	4 – 5
<b>Transplant to finish crop time</b>	
<b>4" crop</b>	10 – 13

*Note: These suggestions are only guidelines and may have to be altered to meet individual grower's needs. Check all chemical labels to verify registration for use in your region.*