



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	Light: Filtered sun to full sun USDA Hardiness Zone: 6 AHS Heat Zone: 9 – 1

	Garden Height	Garden Width
Miss Tilly	6 – 8" (15 – 20 cm)	6 – 8" (15 – 20 cm)

PLATYCODON SCHEDULING IN WEEKS

	Miss Tilly
Total crop time	14 – 18
'288' plug crop time	4 – 5
Transplant to finish crop time	
4" crop	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.