



Picobella™

PETUNIA MILLIFLORA

Minimum Germination Rate: 90%**Seed Product Form:** Pelleted, Raw

FLOWERING

Time Frame when plants are receptive to flower initiation: Days 14 – 21; 3 – 4 leaves.**Flowering Type:** Facultative Long Day Plant – long days required for flowering.**Specific Flowering Mechanism:** Flowering is affected by daylength, irradiance and temperature.

PLUG CULTURE

Germination – Optimum conditions for seedling development that begins the day the crop is sown until cotyledon expansion.

Expect radicle emergence in 3 – 5 days.

Cover: Do not cover the seeds.**Media:** • pH: 5.5 – 5.8
• EC: 0.75 – 1.0**Light:** Light is necessary for germination. Provide a light source of 10 – 100 foot candles (100 – 1000 lux) if utilizing a chamber.**Moisture:** Saturated (5) for days 1 – 3. On days 4 – 6 reduce moisture to wet (4). Reduce further beginning day 7 to medium (2).**Humidity:** 100% until radicle emergence then reduce to 40%.**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.**Temperature:** 72° – 76°F (22° – 24°C) until radicle emergence. Gradually reduce to 62° – 65°F (16° – 19°C) as cotyledons expand.**Plug Bulking/Flower Initiation** – Optimum conditions during the vegetative period, beginning at cotyledon expansion, needed for the root to reach the edge of the plug cell; AND to make the plant receptive to flower initiation.**Media:** • pH: 5.5 – 5.8
• EC: 0.5 – 1.0**Light:** Provide 2500 – 3000 foot candles (2500 – 3000 lux). Supplemental lighting at 400 foot candles (4000 lux) for a 14 hour day will induce early flowering.**Temperature:** 65° – 68°F (18° – 20°C). Once seedlings are established, gradually reduce night temperatures to 59°F (15°C) to initiate early flowering.**Average Daily Temperature (ADT):** 67°F (19°C)**Moisture:** Alternate between moisture levels wet (4) and medium (2). Allow media to approach level (2) before re-saturating to level (4).**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:** Upon initial germination begin feeding early on with 50 ppm Nitrogen. Pay attention to the addition of Boron since low Boron can cause tip abortion. Feed established seedlings at 100 – 150 ppm Nitrogen. Under high light conditions, apply an ammonium-based feed (17-5-17). Under low light conditions, apply a calcium-based feed (14-4-14). Under high light and long or extended days, an ammonium-based feed (20-10-20) is preferred. For more shoot growth, add an additional ammonium treatment to the schedule. To prevent stretching under low light and cool temperatures, reduce ammonium and apply only calcium-based fertilizer.**Growth Regulators:** Plant growth regulators are usually not necessary on genetic dwarf Petunias.

GROWING ON

Transplant Ready: 4 – 5 weeks from sow in a '288' tray.**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 – 5.8 Yellow upper leaves may indicate iron deficiencies when pH is > 6.6.
• EC: 1.0 – 1.5**Light:** Petunias need long days to flower. To initiate bud under short days, extend day length to 13 hours. Under long day, low light conditions, supplemental lighting of 350 – 500 foot candles (3500 – 5000 lux) may be necessary.**Temperature:** After transplant, Petunias require temperatures > 55°F (13°C) nights for the first 6 weeks to initiate flower bud development. After bud set, the night temperatures can be lowered to 50°F (10°C) to encourage basal branching and compactness. However, lower temperatures may also substantially decrease the number of flowers initiated. Downward cupping of leaves may indicate too cool temperatures in combination with overwatering.**Average Daily Temperature (ADT):** 67°F (19°C)**Moisture:** Alternate between moisture levels wet (4) and dry (1) Allow media to approach level (1) before re-saturating to level (4).**Dehumidify:** Provide horizontal airflow to aid in drying down the media through evapotranspiration under cool, low light conditions.**Fertilizers:** Under high light conditions, apply an ammonium-based feed (17-5-17). Under low light conditions, apply a calcium-based feed (14-4-14).. Under high light and long or extended days, an ammonium-based feed (20-10-20) is preferred. To prevent stretching under low light and cool temperatures, reduce ammonium and apply only calcium-based fertilizer.**Growth Regulators:** Plant growth regulators are usually not necessary on genetic dwarf Petunias.**Common Diseases:** Botrytis, Rhizoctonia**Common Pests:** Thrips

SCHEDULING

Total crop time: 8 – 10 weeks**'288' Plug crop time:** 4 – 5 weeks**Transplant to finish crop time:** Packs: 4 – 5 weeks
4" crop: 5 – 6 weeks

PRODUCT USE

Packs, pots, containers, mass plantings

GARDEN SPECIFICATIONS

Light: Full sun**USDA Hardiness Zone:** 8**AHS Heat Zone:** 9 – 1**Garden Height:** 8 – 10 inches (20 – 25 cm)**Garden Width:** 8 – 10 inches (20 – 25 cm)