ANNUAL
PROPAGATION
PETUNIA SMARTUNIA
Petunia x hybrida

TRAY & ROOTING

<table>
<thead>
<tr>
<th>Form</th>
<th>Vegetative Cutting (URC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooting Hormone?</td>
<td>No</td>
</tr>
<tr>
<td>Tray Size</td>
<td>50, 72, 84, 105</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Days In Mist</td>
<td>7-10</td>
</tr>
<tr>
<td>Wks. From Stick To</td>
<td>3-4</td>
</tr>
<tr>
<td>Transplant</td>
<td></td>
</tr>
<tr>
<td>Propagation Pinch?</td>
<td>Yes</td>
</tr>
<tr>
<td>Weeks To Pinch</td>
<td>3</td>
</tr>
</tbody>
</table>

FERTILITY

<table>
<thead>
<tr>
<th>Fertilize Through Mist?</th>
<th>50-75ppm N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilizer Rate</td>
<td>100-150ppm N</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate: (2.0-3.5 mS via SME)</td>
</tr>
<tr>
<td>pH Range</td>
<td>5.5-6.0</td>
</tr>
</tbody>
</table>

TEMPERATURE

| Average Soil Temp       | 70-75°F (21-24°C) |
| Average Air Temp (Day)  | 70-75°F (21-24°C) |
| Average Air Temp (Night)| 68-72°F (20-22°C) |

IRRIGATION

| Irrigation Frequency   | Level 3: Keep media moderately moist with mild dry cycles |

LIGHT

| Daylength Neutral?     | Yes |
| Supplemental           | None |
| Benefits From Shade?   | No |

POTENTIAL DISEASES

Botrytis, Pythium, Rhizoctonia

POTENTIAL PESTS

Aphids, Thrips, Whitefly

PGR SUGGESTIONS

- To stimulate branching and promote uniformity, apply 250 ppm Florel (3.9% Ethephon) as soon as cuttings show roots (as early as day 7).
- Tank mix 250ppm Florel (3.9% Ethephon) + 500ppm B-Nine (85% Daminozide)
- 750ppm B-Nine (85% Daminozide)

CULTIVAR LIST

Baby Pink, Neon, Purple Vein, Red, White

‘Purple Vein’

TIPS

- After sticking, water the cuttings uniformly to help “seat” them in the soil media. Good soil to stem contact is important for rooting. Over-misting or delayed mist reduction leads to slower rooting and causes iron deficiency.
- Petunias can be pinched in the liner stage to prevent stretch and promote basal branching but the grower must determine if this is necessary.

WE’RE HERE TO HELP YOU GROW
Tech.NA@DummenOrange.com
614-850-9551
DummenOrange.com
ANNUAL
FINISHING
PETUNIA SMARTUNIA
Petunia x hybrida

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>TRANSPLANT TO FINISH (WEEKS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in. (10 cm) and up</td>
<td>1</td>
<td>3-5</td>
</tr>
<tr>
<td>Gallon (16 cm)</td>
<td>1</td>
<td>5-6</td>
</tr>
<tr>
<td>10 in. (22 cm) and up</td>
<td>3</td>
<td>8-12</td>
</tr>
</tbody>
</table>

FERTILITY
Fertilizer Rate: 200-250 ppm N
EC Range: High: (3.5-5 mS via SME)
pH Range: 5.6-6.2

TEMPERATURE
Day Temperature: 65-73°F (18-23°C)
Night Temperature: 68-75°F (20-24°C)

IRRIGATION
Irrigation Frequency: Level 3: Keep media moderately moist with mild dry cycles

LIGHT
Daylength Neutral: Yes
Optimum Light Level: 5,000-8,000 fc (53,800-86,100 lux)
Supplemental Benefits From Shade: None

PINching
Finishing Pinch: No
Transplant to Pinch: N/A

POTENTIAL DISEASES
Botrytis, Pythium, Rhizoctonia

POTENTIAL PESTS
Aphids, Thrips, Whitefly

PGR SUGGESTIONS
- 500ppm B-Nine (85% Diaminozide) + 750ppm Cycocel (11.8% Chlormequat) as a tank mix
- Bonzi (0.4% Paclobutrazol) drench 0.5-1ppm when plants have reached saleable size to tone for retail.

TIPS
- High light and a negative DIF will reduce stretch.
- Fertilizers with increased iron and micronutrients are best.
- Allow media to dry moderately between waterings but do not allow plants to wilt. Avoid saturated media. Petunias are susceptible to root diseases if overwatered.
- Avoid high-rate PGR applications; they can distort the finished habit. Use of PGRs can delay flowering by up to 2 weeks, avoid applications when flower buds are present.
- Pinch after transplant ONLY when liner has not been treated or soft-pinches for shaping.

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