Maché™ Pink

Ranunculus Maché™

Culture Guide

Botanical name: Ranunculus asiaticus
Product form: Seed
Containers: Quarts
Habit: Upright

Garden Specifications
Garden Height: 10–12” (25–30 cm) tall
Garden Width: 10–12” (25–30 cm) wide
Exposure: Full sun
USDA zone: 11
AHS zone: 4–1
Product use: Containers, Landscapes

Germination
Stages 1 & 2
Germination time: 14–21 days
Media temp: 50–55 °F (10–13 °C)
Chamber: Yes
Light: Not required for germination
Seed cover: Yes
Moisture level: 5 - SATURATED: Soil is dark brown and shiny, free water is present at the surface of the soil, water drips freely from the bottom of the tray, and trays are heavy with a visible bend in the middle.
Rec. tray size: 288-cell tray
Seeds per cell: 1

Young Plant Production
Stages 3 & 4
Temperature
Day: 52–54 °F (11–12 °C)
Night: 52–54 °F (11–12 °C)
Average daily temperature: 53 °F (12 °C)
Lighting
Day extension lighting: Not necessary
Light intensity: 2,500–3,000 foot candles (500–600 micro mols)
Day length response: Facultative long day
Daily light integral: 10–12 mols/day
Media pH: 5.5–5.9
Media EC: SME 0.5 to 0.75 mS/cm

Fertilizer: 50–75 ppm N
Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 3 and 4.
3 - MOIST: Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.
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 are heavy with a visible bend in the middle.

Pinching: No

Plant growth regulators (PGRs): Usually not needed if grown cool. If necessary, due to warm temperatures, spray with B-Nine® WSG at 1,500–2,500 ppm to control growth.
Plug grow time: 8–10 weeks in a 288-cell tray
Comments: Control Thrips to avoid Tospovirus.

Finishing
Temperature
Day: 52–54 °F (11–12 °C)
Night: 50–52 °F (10–11 °C)
Average daily temperature: 52 °F (11 °C)
Lighting
Day extension lighting: Beneficial to 14 hours
Light intensity: 4,000–6,000 foot candles
Day length response: Facultative long day
Daily light integral: 16–18 mols/day
Transplanting: Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure the root ball is covered and that the plug is situated in the center of the pot.
Media pH: 5.5–5.9
Media EC: SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2 mS/cm
Fertilizer: 125–175 ppm N
Pinching: No. Pinching is not recommended or needed.
Plant growth regulators (PGRs): Ranunculus responds well to sprays of B-Nine® WSG at 2,500–5,000 ppm. If grown cool, PGR applications are usually not necessary. Under warm conditions, 1-3 sprays of B-Nine® WSG may be beneficial to control leaf size.
**Tech tip:** Control Thrips to avoid Tospovirus.

Try Chrysal Alesco®, a postharvest foliar spray, to protect ethylene sensitive crops during shipping and retail.

### 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 are heavy with a visible bend in the middle.

### Common pests
Aphids, Whiteflies, Leafminers, Thrips, Fungus gnats

### Common diseases
Cercospora, Pythium, Botrytis, Tospovirus, Xanthomonas

### Scheduling

<table>
<thead>
<tr>
<th>Size</th>
<th>Crop Time</th>
<th>Plants Per Pot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 quart (4.5 to 5 inch)</td>
<td>12–15 weeks</td>
<td>1 ppp</td>
</tr>
<tr>
<td>1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)</td>
<td>13–16 weeks</td>
<td>1–2 ppp</td>
</tr>
</tbody>
</table>

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 52 °F (11 °C).

### Example crop schedule for a 1.0 pint

<table>
<thead>
<tr>
<th>Weeks From Transplant</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 week</td>
<td>Scout for Thrips. Treat plants if necessary. Provide long day lighting to speed up flowering if under short days</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Ready to ship</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Apply plant growth regulators (PGRs) if needed</td>
</tr>
<tr>
<td>10 weeks</td>
<td>Apply plant growth regulators (PGRs) if needed</td>
</tr>
<tr>
<td>14 weeks</td>
<td>Ready to ship</td>
</tr>
</tbody>
</table>

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