

Echeveria Devotion®/ Red Velvet®

Culture Guide

Echeveria pulvinata

Product form: Vegetative

Containers: Pints, Quarts

Habit: Mounded

Garden Specifications

Garden Height: 6–8" (15–20 cm) tall

Garden Width: 8–10" (20–26 cm) wide

Exposure: Full sun

USDA zone: 9–11

AHS zone: 12–9

Product use: Packs, Containers

Propagation of Unrooted Cuttings

Root emergence: 21–28 days

Rooting hormone: Not recommended

Bottom heat temp.: 66–70 °F (19–21 °C) for the first

three weeks. After roots are well developed, temperatures can be lowered to hold and tone the cuttings.

Misting: Keep media as dry as possible for 7–14 days after sticking, water only when media is dry. Do not apply overhead mist. Once root initials form, keep media moderately moist (level 3) at all times. Avoid overhead watering if possible.

Rec. tray size: 50-cell (30 mm) or larger

Propagation timing: 6–8 weeks for a 50-cell plug; add more rooting time for significantly larger plug sizes.

Temperature

Day: 66–68 °F (19–20 °C)

Night: 66–68 °F (19–20 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 1,000–1,200 foot candles (200–250 micro mols) for the first two weeks after sticking or until root development occurs. Light levels can be increased up to 3,000 foot candles (600 micro mols) as rooting increases and the cutting matures.

Day length response: Day neutral

Day light integral: 4–6 mols/day for the first two weeks after sticking or until root development occurs. DLI can be increased to greater than 12 mols/day after root formation.

Media pH: 5.6–6.0

Media EC: SME EC: 0.9–1.3 mS/cm, PourThru EC: 1.4–2.0 mS/cm

Fertilizer: Begin fertilization at 50 ppm nitrogen when roots become visible. Rates can be increased up to 100 ppm nitrogen after roots become well developed. Use primarily Cal-Mag® Plus (calcium nitrate + magnesium nitrate) fertilizers in propagation to prevent unwanted stretch.

Pinching: Not recommended

Plant growth regulators (PGRs): None required.

Finishing

Temperature

Day: 68–70 °F (20–21 °C)

Night: 64–66 °F (18–19 °C)

Average daily temperature: 66–74 °F (19–23 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 6,000–8,000 foot candles (800–1,200 micro mols)

Day length response: Day neutral

Day light integral: Greater than 18 mols/day

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Transplanting: Transplant directly into the finished container. Place the rooting media slightly below the level of media in the container. Make sure that the root ball is covered and that the cutting is situated in the center of the pot.

Media pH: 5.8–6.2

Media EC: SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2 mS/cm

Fertilizer: 75–125 ppm N

Pinching: No. Pinching is not recommended or needed.

Plant growth regulators (PGRs): None

Tech tip: To prevent diseases, avoid overhead irrigation. Keep leaves dry and provide good air circulation. If watering overhead, irrigate in the morning prior to bright sun to avoid leaf scorch.

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: Fungus Gnats, Mealy Bugs, Aphids

Common diseases: Botrytis, Pythium, Fusarium, Erwinia, Rhizoctonia

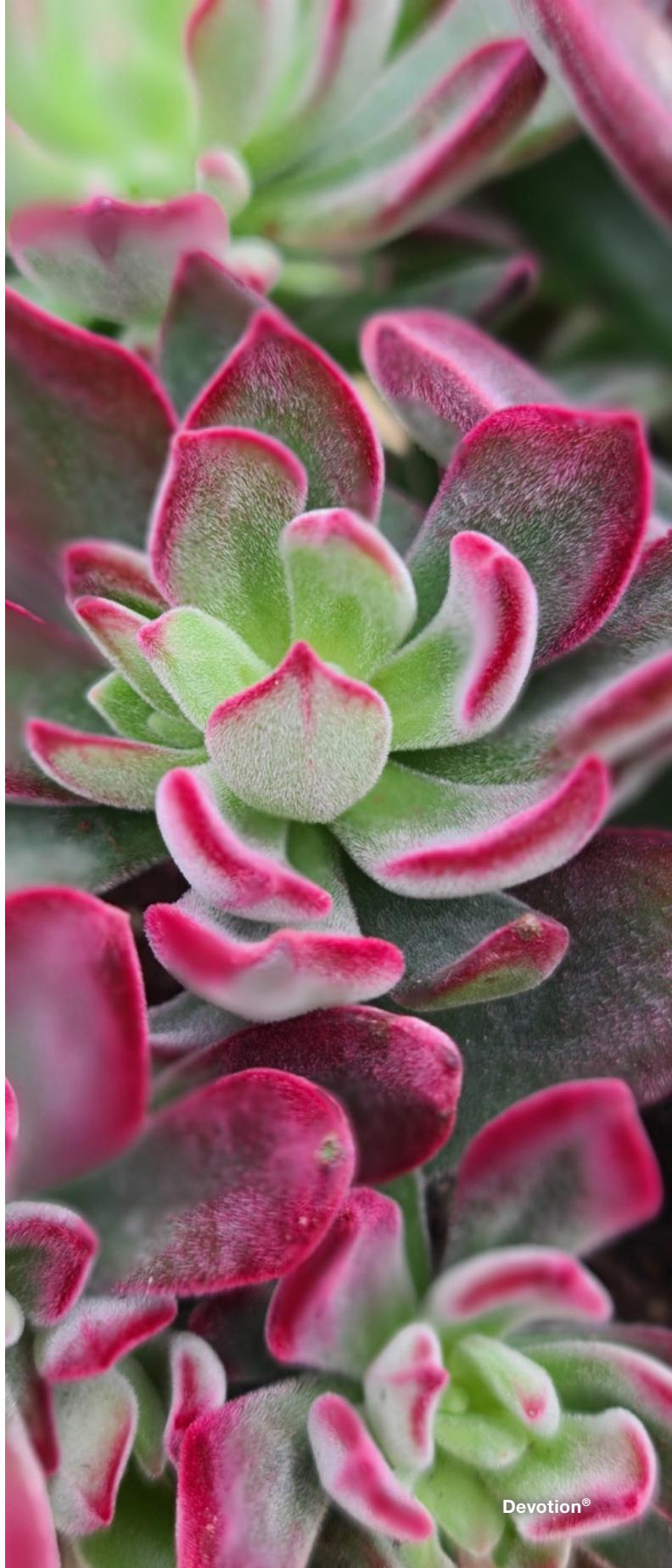
Scheduling

SIZE	CROP TIME	PLANTS PER POT
Large Packs	20–22 weeks	1 ppp
1.0 pint (4 inch)	20–22 weeks	1 ppp
1.0 quart (4.5 to 5 inch)	20–22 weeks	1–2 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	20–22 weeks	2–3 ppp

Estimated finish crop time is from transplant of a 50-cell tray and finished at an average daily temperature (ADT) of 68 °F (20 °C).

Example crop schedule for a 1.0 quart

WEEKS FROM TRANSPLANT	DESCRIPTION
1 week	Provide average daily temperature of 68 °F (20 °C) to allow media to dry down to level 2 between irrigations
3 weeks	Scout regularly for insects and diseases
8 weeks	Apply broad spectrum fungicide to prevent basal stem and root rot diseases
16 weeks	Space pots if leaves are touching
20 weeks	Sale



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