

Erysimum Erysistible™



Culture Guide

Botanical name: *Erysimum linifolium*

Product form: Vegetative

Containers: Quarts, Gallons

Habit: Upright

Vernalization: Not required (First Year Flowering)

Garden Specifications

Garden Height: 16–22" (40–56 cm) tall

Garden Width: 12–16" (30–40 cm) wide

Exposure: Full sun

USDA zone: 5–9

AHS zone: 9–5

Product use: Containers, Landscapes, Combinations

Propagation of Unrooted Cuttings

Root emergence: 10–14 days

Rooting hormone: Recommended. A quick dip at 250–500 ppm of K-IBA has been found to be more beneficial than an overhead spray. Overhead sprays tend to cause hard, gnarled growth.

Bottom heat temp.: 70–72 °F (21–22 °C) for the first three weeks. After roots are well developed, temperatures can be lowered to hold and tone the cuttings.

Misting: Mist schedules vary depending on light and temperature conditions. Apply just enough moisture to rehydrate the cuttings and keep them from wilting. Cuttings should be hydrated and in a non-wilted stage within 24 hours after sticking. Cuttings that continue to wilt heavily after 24 hours will callus unevenly and will be delayed in rooting. Misting should be significantly reduced after 3–4 days and after cuttings become fully hydrated.

Rec. tray size: 105-cell (30 mm) or larger

Propagation timing: 6–7 weeks for a 105-cell plug; add more rooting time for significantly larger plug sizes.

Temperature

Day: 66–68 °F (19–20 °C)

Night: 64–66 °F (18–19 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 200–250 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ for the first two weeks after sticking or until root development occurs. Light levels can be increased up to 600 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ as rooting increases and the cutting matures.



Erysistible™ Yellow

Day length response: Facultative long day

Daily light integral: 4–6 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$ for the first two weeks after sticking or until root development occurs. DLI can be increased to greater than 12 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$ 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 + iron) fertilizers in propagation to prevent unwanted stretch.

Pinching: Recommended

Plant growth regulators (PGRs): Not necessary

Bulking and Vernalization

Vernalization: Not required (First Year Flowering)

Finishing

Temperature

Day: 64–66 °F (18–19 °C)

Night: 60–62 °F (16–17 °C)

Average daily temperature: 64 °F (18 °C)

Lighting

Day extension lighting: Necessary to 14 hours

Light intensity: 800–1,200 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$

Day length response: Facultative long day

Daily light integral: 14–16 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

Transplanting: Transplant directly into the finished container. Place the rooting media slightly below the level of media in the container. Make sure the root ball is covered and the plug 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: 125–175 ppm N

Pinching: Yes, 1 pinch is recommended in propagation 7–10 days prior to transplant leaving 4–6 leaf nodes.

Plant growth regulators (PGRs): If necessary, a Bonzi® spray at 30 ppm, or Sumagic® spray at 5 ppm.

Tech tip: Erysistible™ Erysimum's cold hardiness allows it to be produced in the fall and finished for early spring sales.



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 3.

2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

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.

Common pests: Aphids, Whiteflies

Common diseases: Downy mildew, Powdery mildew

Scheduling

Size	Crop Time	Plants Per Pot
1.0 quart (4.5 to 5 inch)	5–6 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	6–7 weeks	1 ppp

Estimated finish crop time is from transplant of a 105-cell tray and finished at an average daily temperature (ADT) of 64 °F (18 °C).

Example crop schedule for a 2.5 quart

Weeks From Transplant	Description
1 week	Transplant one pinched plug into the center of the container
2 weeks	Avoid watering late in the day as it could promote either powdery or downy mildew
4 weeks	If needed, apply PGR sprays to reduce height and stiffen the plant to make it ready to ship. Avoid applications after bud set as it might bury the flowers beneath the foliage
6 weeks	Finish

Erysistible™ Bronze Rose

Erysistible™ Yellow

Erysistible™ Magenta

