

# Cora<sup>®</sup> Cascade<sup>™</sup>

## TRAILING VINCA

Minimum Germination Rate: 85%

Seed Product Form: Raw

### FLOWERING

**Flowering mechanism:** Irradiance (primary); plants initiate on approximately Day 20 with HID light for 16 – 18 hours OR total 15 – 24 mols (4250-6500 f.c.) for 3 – 4 weeks at 75°F (24°C). Bud/flower development will occur between Days 36 – 70.

Day Neutral – high irradiance, temperatures higher than 75°F (24°C) will enhance flowering.

### PLUG CULTURE

*The timing approximations are based on optimal culture recommendations below:*

**Germination 1** (approximately Day 1 – 7) – Humidity in the air 100% (humidification) from the time the crop is sown until radicle emergence takes place; root initial has penetrated media; some cotyledon development.

Expect radicle emergence in 7 – 8 days.

**Cover:** Seeds may be covered with a medium layer of coarse vermiculite to maintain dark conditions, optimum moisture levels and so roots will penetrate growing media.

**Media:** Avoid media compaction to allow for root penetration.

- pH: 5.5 – 5.8; this recommended range will reduce the incidence of Thielaviopsis. Monitor pH frequently because vinca will naturally raise the soil pH by as much as .5 – 1 unit.
- EC: <.5 – 1.0

**Light:** Dark conditions are required for germination.

**Moisture:** Saturated (5), from day 1 – 7 or until radicle emergence (approximately day 8). If you are unable to dehumidify on day 8, decrease the starting moisture level from saturated (5) to a wet (4+).

**Humidity:** 100% from day 1 – 7 or until seed coats are shed.

**Temperature:** 76° – 78°F (24° – 25°C) until day 7.

**Fertilizers:** Maintain EC of .5 – 1.0.

**Germination 2** (approximately Day 8 – 16) – Change the humidity in the air (dehumidification) to 40%. The result is better root expansion; cotyledons fully expanded; roots are expanding throughout the growing substrate.

Media: • pH: 5.5 – 5.8

- EC: 1.0 – 1.25

**Light:** 2000 – 3000 foot candles (20,000 – 30,000 lux); 6 – 10 mols of light.

**Moisture:** Dry back media to wet (4) and alternation to moist (3) within 18 hours at radicle emergence (approximately day 8).

**Dehumidify:** Lower relative humidity to 40% (approximately day 8). Provide horizontal airflow to aid in drying down the media through evapotranspiration, allowing better penetration of oxygen to the roots.

**Temperature:** Once cotyledons are observed, reduce temperature to 75° – 78°F (24° – 25.6°C).

**Fertilizers:** 14-4-14 or 17-5-17 @ 60 – 100 ppm N as needed for an EC in the soil of 1.0 – 1.25.

**Fungicides:** Preventative fungicide may be applied for Thielaviopsis and Rhizoctonia between day 7 and 10.

**Plug Bulking/Flower Initiation** (approximately Day 17 – 24) – Length of vegetative period – time necessary for roots to reach the edge of the plug, for shoots to fill out container, and for plants to become receptive to flower initiation. Before initiation starts, the plants should be a proper size, which includes optimum shoot development, large number of axillary shoots and good presentation from pot size to plant size.

Media: • pH: 5.5 – 5.8

- EC: 1.25 – 1.75

**Light:** 3500 – 5500 foot candles (35,000 – 55,000 lux); 12 – 20 mols of light.

**Temperature:** 75° – 78°F (24° – 25.6°C)

**Moisture:** Alternate between moisture level wet (4) to medium (2). Allow the soil to approach medium (2), before re-saturating to wet (4). If media is allowed to dry back further than (2), root damage may occur resulting in a lack of iron uptake. Watering or fertilizing late in the day may increase the susceptibility to air-borne disease.

**Fertilizers:** 14-4-14 or 17-5-17 at 75 – 125 ppm N, as needed for an EC in the soil of 1.25 – 1.75.

**Growth Regulators:** If needed, spray B-Nine (daminozide) at 1500 – 2500 ppm.

**Fungicides:** Preventative fungicide may be applied for Thielaviopsis, Rhizoctonia, Pythium, and Phytophthora.

**Initiated Bulking** (approximately Day 25 – 35) – Plants are receptive to flowering.

**Light:** Provide 4750 – 7500 foot candles (47,500 – 75,000 lux) or 17 – 28 mols of light.

**Temperature:** 75° – 78°F (24° – 25.6°C)

**Fertilizer:** 14-4-14 or 17-5-17 at 75 – 150 ppm N, as needed for an EC in the soil of 1.25 – 1.75.

**Fungicides:** Preventative fungicide may be applied for Thielaviopsis, Rhizoctonia, Pythium, and Phytophthora.

### GROWING ON

*The timing approximations are based on optimal culture recommendations below:*

**Transplant to Finish** (approximately Day 36 – 84)

Media: • pH: 5.5 – 5.8

- EC: 1.7 – 2.0

**Light:** Provide 5000 – 7500 foot candles (50,000 – 75,000) or 18 – 28 mols.

**Temperature:** 75° – 78°F (24° – 25.5°C)

**Moisture:** Alternate between moisture levels wet (4) and medium (2). Allow media to approach level (2) before re-saturating to wet (4).

**Humidity:** 40%

**Fertilizers:** 14-4-14 or 17-5-17 @ 100 – 175 ppm, as needed for an EC in the soil of 1.7 – 2.0.

**Growth Regulators:** B-Nine (daminozide) at 2500 – 5000 ppm or A-Rest (ancymidol) at 2 – 4 ppm.

**Fungicides:** Preventative fungicide may be applied for Rhizopus, Thielaviopsis, Rhizoctonia, Pythium, and Phytophthora.

### Pre-Shipping Techniques to Enhance Post Harvest Quality

**When to treat:** 1 – 2 weeks prior to finish or shipping.

**Growth Regulators:** B-Nine (daminozide) at 2500 – 3000 ppm.

**Fertilizer:** Potassium nitrate drench at 150 ppm Nitrogen.

**Common Diseases:** Thielaviopsis, Rhizoctonia, Pythium. Monitor moisture and humidity levels and use preventative fungicide drenches.

**Common Pests:** Fungus Gnats, Shore Flies and Thrips. Use pesticides according to label directions.

### SCHEDULING

*The shortest crops times may be achieved when following recommended optimal culture. Deviation in environmental conditions will result in longer crop times.*

**Total crop time:** 12 – 18 weeks

**'128" crop time:** 7 – 8 weeks

**'200" Plug crop time:** 6 – 7 weeks

**'288" Plug crop time:** 5 – 7 weeks

**Transplant to finish crop time:** 6" crop: 8 – 9 weeks, depending on number of plugs transplanted into pot.

8" crop: 9 – 10 weeks, depending on

number of plugs transplanted into pot.

10" basket crop: 10 – 11 weeks, depending

on number of plugs transplanted into pot.

### PRODUCT USE

Pots, containers, mass plantings

### GARDEN SPECIFICATIONS

**Light:** Full sun

**USDA Hardiness Zone:** 11

**AHS Heat Zone:** 12 – 1

**Garden Height:** 6 – 8 inches (15 – 20 cm)

**Garden Width:** 32 – 36 inches (81 – 91 cm)

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