

Impatiens Imara™ XDR

Culture Guide

Botanical name: *Impatiens walleriana*

Product form: Seed

Containers: Packs, Pints, Quarts, Gallons, Hanging Baskets

Habit: Mounded

Garden Specifications

Garden Height: 10–12" (30–35 cm) tall

Garden Width: 10–12" (30–35 cm)

Exposure: Shade

USDA zone: 11

AHS zone: 9–1

Product use: Packs, Containers, Hanging Baskets, Landscapes

Germination

Stages 1 & 2

Germination time: 3–5 days

Media temp: 72–75 °F (22–24 °C)

Chamber: Optional

Light: 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

Seed cover: Yes

Young Plant Production

Stage 3 & 4

Temperature

Day: 66–68 °F (19–20 °C)

Night: 66–68 °F (19–20 °C)

Average daily temperature: 66–68 °F (19–20 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 2,500 foot candles (500 micro mols)

Day length response: Day neutral

Day light integral: 10–12 mols/day

Media pH: 5.8–6.2

Media EC: SME 0.5 to 0.75 mS/cm

Fertilizer: 75–125 ppm N

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.

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): Impatiens are responsive to B-Nine®, Bonzi® and Sumagic®.

Plug grow time: 4–5 weeks in a 288-cell tray

Comments: Use a calcium based fertilizer and feed once a week at most to avoid soft growth and stretching of plugs. Do not let plants go into the night with wet foliage or tip abortion may occur. Downward cupping or twisting of immature leaves may be caused by overuse of PGRs. Subdue Maxx® and/or Segway® drenches are recommended plug stage fungicides for disease management, and rotations of Mural® and Micora® sprays and Segovis® sprays or drenches are recommended for the finishing stage.

Finishing

Temperature

Day: 72–74 °F (22–23 °C)

Night: 62–64 °F (17–18 °C)

Average daily temperature: 69 °F (21 °C)

Lighting

Day extension lighting: Not necessary

Light intensity: 2,000–4,000 foot candles

Day length response: Day neutral

Day light integral: 10–12 mols/day

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

Fertilizer: 75–125 ppm N

Pinching: No. Pinching is not recommended or needed.

Plant growth regulators (PGRs): Impatiens are responsive to B-Nine®, Bonzi® and Sumagic®.

Tech tip: Use a calcium based fertilizer and feed once a week at most to avoid soft growth and stretching of plants. Do not let plants go into the night with wet foliage or tip abortion may occur, especially during early stages of growth. Downward cupping or twisting of immature leaves may be caused by overuse of PGRs. It is better to use less water and fertilizer than PGRs to control growth. Preventive fungicide applications for foliar and root disease are recommended, especially in high humidity environments. Subdue Maxx®, Mural®, Micora®, and Segovis® fungicides can be used in a rotation program to control the common disease problems of Impatiens.

Scheduling

Size	Crop Time	Plants Per Pot
Packs	4–5 weeks	1 ppp
Large Packs	5–6 weeks	1 ppp
1.0 pint (4 inch)	6–7 weeks	1 ppp
1.0 quart (4.5 to 5 inch)	6–7 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	7–8 weeks	1–3 ppp
3.0 quart to 2.0 gallon (7.5 to 10 inch)	9–10 weeks	5–7 ppp
1.5 gallon hanging basket (10 inch basket)	9–10 weeks	5–7 ppp
2.0 gallon hanging basket (12 inch basket)	10–12 weeks	5–7 ppp

Estimated finish crop time is from transplant of a 288-cell tray and finished at an average daily temperature (ADT) of 70 °F (21 °C).

Example crop schedule for a pack

Weeks From Transplant	Description
3 weeks	Apply PGR if necessary to control growth
6 weeks	Day and night temperatures may be dropped by 5 °F (3 °C) to help tone plants



Imara™ XDR Mix

CHRYSALESCO 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: Thrips, fungus gnats, aphids and spider mites

Common diseases: Pythium root rot, Botrytis blight, INSV, TSWV, Pseudomonas, Rhizoctonia and Alternaria leaf spot



 **Segovis**
Fungicide

- Long-lasting control of downy mildew on impatiens, coleus, roses and more
- Unique mode of action for resistance management
- Strong systemic activity provides extended control at low use rates

 **Imara™ XDR**

syngenta flowers®

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