



Imara™ XDR Rose



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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) wide
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
Seeds per cell: 1

Young Plant Production
Stages 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
Daily 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



Imara XDR simplifies production with just 3 fungicide applications from start to landscape performance (up to 24-26 weeks) to keep your Impatiens crop healthy, compared to weekly applications for non-IDM resistant varieties.

1. Imara XDR Impatiens have a high degree of resistance to Impatiens Downy Mildew (IDM), confirmed in independent trials in North America and Europe.¹ However, they are not immune to the disease.
2. For this reason, we highly recommend chemical rotations as a responsible and critical part of a disease resistance maintenance program.
3. Applications are also advised to control several other diseases that can infect Impatiens, such as Pythium, Myrothecium, Alternaria and Botrytis.

¹Confirmed in independent trials in North America and Europe including trials in 2017 and 2018 at Cornell University's Long Island Horticultural Research & Extension Center.

Plant growth regulators (PGRs): Impatiens are responsive to B-Nine® WSG, 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® fungicide drenches are recommended plug stage fungicides for disease management, and rotations of Mural® and Micora® fungicide sprays and Segovis® fungicide 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

Daily 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 WSG, 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.



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.

Common pests: Thrips, fungus gnats, aphids and spider mites

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

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 large pack

Week	Description
1	Sow into 288-cell or similar plug tray.
2	Once cotyledons have expanded, alternate between a level 4 (wet) and level 2 (medium) media moisture, apply fungicide (Subdue Maxx drench at 1 oz/100 gallons)
3	PGR: Spray B-Nine WSG (daminozide) to tone plugs.
5	Transplant 1 plug per cell for packs and finish at an ADT of 70 °F (21 °C).
7	Apply fungicide (Mural spray at 5-6 oz/100 gallons or Micora spray at 8 oz/100 gallons).
8	PGR: Spray B-Nine WSG, Bonzi, or Sumagic.
9	Apply fungicide (Segovis drench at 1 oz/100 gallons).
10	Finish.

Imara™ XDR Mix



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