



Matthiola Column Stock Series

(*Matthiola incana*)

Cut Flowers Culture (revised 01/23/21)

Column Stock will produce approximately 50% double-flowering plants. It is best suited for field production in mild climates.

General Information

Cultivation Type	Usage	Stem Length	Timing Group
Field grown	Line	24-30 in. (61-76 cm)	N/A

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days from 50% to maximum germination	Initial Media pH/EC (1:2)	Cover Seed
RAW	Direct sow		N/A	14-21	5.8-6.2 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 3-4	Level 3
Temperature	65-70°F (18-21°C)	60-65°F (16-18°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
Light		1,000-2,500 f.c. (10,800-26,900 Lux)	1,000-2,500 f.c. (10,800-26,900 Lux)	2,500-5,000 f.c. (26,900-53,800 Lux)
Fertilizer		Less than 100 ppm N (Less than 0.7 EC)	100 to 175 ppm N (0.7 to 1.2 EC)	100 to 175 ppm N (0.7 to 1.2 EC)

Propagation Key Tips

In field grown-type stocks, typically the seed is directly sown into the field, so it's important to maintain the optimal field conditions, especially the moisture conditions, for the seed to germinate and establish.

Growing on to Finish

Target Media pH/EC (1:2)	Fertilizer	Daylength
5.8-6.5 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N (1.2 to 1.5 EC)	-

Crop Scheduling

Cultivation Type	Support	Temperature	Density	Crop Time
Field grown	Not needed	13-18°C/55-65°F (day) 10-16°C/50-60°F (night)	-	20-22 weeks

Finishing Key Tips

Column stocks are non-selectable for doubleness. Direct sow seed at 2.2 lbs./acre (1 kg/4,000 m²). Optimum stem length will be achieved during cool growing periods. High heat can stunt plants or prevent flower spikes from developing.

Harvest

Harvest when 3-5 florets have opened.

Post Harvest

Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer recommended rates.

Vase Life

5-8 days

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

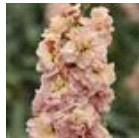
Variety Pictures



American Beauty



Appleblossom



Apricot



Avalanche



Ball Pink No 22



Lilac Lavender



Malmaison Pink



Miracle Blue Mid



Miracle Crimson



Miracle Gold



Miracle Yellow



Pacific Blue



Pacific Crimson



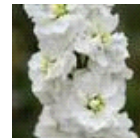
Pink Sweetheart



Purple Heart



Rose Pink



White Goddess



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PanAmerican Seed Co.
622 Town Road, West Chicago, Illinois, USA, 60185-2698
info@bloomstudios.com

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