GrowerFacts

PanAmerican Seed®

Lavandula Blue Spear

(Lavandula angustifolia)

Perennials Culture (revised 10/14/25)

Complete your Lavender program here!
Find four outstanding varieties to fill in your regionally focused program of *Lavandula angustifolia* from PanAmerican Seed. With Blue Spear, Avignon Early Blue, Ellagance Purple and Lavance Deep Purple, we have all the seed Lavender to keep you growing. Find detailed information in our regional Lavender Scheduling Tool at panamseed.com/perennials.

Plug crop time: 5 to 6 weeks
Transplant to finish: 11 to 15 weeks (24 to 36 weeks overwintered)

- *The showiest English Lavender you can grow and sell!* Blue Spear shows off bigger, taller spikes than any other seed lavender, with more upright flower stems that stand closer to each other for huge impact from a distance.
- Very easy to grow, with high uniformity, good habit and earliness (if grown with minimum 12-hour daylength).

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Late Spring, Summer	11-13 in. (28-33 cm)	9-11 in. (23-28 cm)	12 in. (30 cm)

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
PRM	288 128*	3-4 5-6	6-8 8-9	4-5	5.8-6.5 pH 0.7-1.2 mmhos/cm	Yes

* Recommend plug size for forcing.

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3	Level 2-3	Level 2
Temperature	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)	60-65°F (16-18°C)
Light	Light	2,000-2,500 f.c. (21,500-26,900 Lux)	2,500-3,500 f.c. (26,900-37,700 Lux)	4,000-5,000 f.c. (43,100-53,800 Lux)
Fertiliser		100 to 175 ppm N (0.7 to 1.2 EC)	175 to 225 ppm N (1.2 to 1.5 EC)	175 to 225 ppm N (1.2 to 1.5 EC)
PGR			daminozide/1,000-2,000 ppm/Spray	daminozide/1,000-2,000 ppm/Spray

Vernalisation

No

Propagation Key Tips

For forcing info: see Perennials Forcing Guide.
For scheduling info: see Lavender scheduling tool.
Spray damp-off fungicide. Provide good ventilation and active respiration in plug production. Grow on the dry side, watering in the early morning to allow the plugs to dry up during the day. If respiration and fertilisation are too low, Lavandula angustifolia can show "black spots" on cotyledons due to root pressure damage. This is reversible with improved ventilation and higher fertilisation.

Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertiliser	Daylength
(day) 60-72°F (16-22°C) **(night)** 54-60°F (12-16°C)	5.8-6.5 pH 1.1-1.4 mmhos/cm	100 to 175 ppm N (0.7 to 1.2 EC)	Facultative Long Day

Daylength Notation

Critical Daylength: 11 hours in High DLI (15Mol/day/m2); 12 hours in Low DLI (5Mol/day/m2)
See Lavender Scheduling Tool at panamseed.com for finishing schedules per region.

Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	4"/4.5"/Quart/10 cm	1 (ppp)	9-12 (weeks)	Late Spring, ADT 65°F (18°C)	daminozide 2,000-3,000 ppm Spray
Annual	4"/4.5"/Quart/10 cm	1 (ppp)	9-10 (weeks)	Summer, ADT 65°F (18°C)	daminozide 2,000-3,000 ppm Spray
Annual	5"/6"/1 Gallon/15 cm	1-3 (ppp)	9-11 (weeks)	Summer, ADT 65°F (18°C)	daminozide 2,000-3,000 ppm Spray
Annual	5"/6"/1 Gallon/15 cm	1-3 (ppp)	10-12 (weeks)	Late Spring, ADT 65°F (18°C)	daminozide 2,000-3,000 ppm Spray

Fertiliser Notation

Apply constant fertiliser at rate 1 to 2 (100 to 125 ppm N/0.7 to 1.2 mmhos/cm EC or 150 ppm as needed). Maintain the pH at 5.8 to 6.5 and EC 1.2 to 1.5 mmhos/cm. For overwintering outside, add some extra nitrate-based fertiliser in early Spring (EC 1.5 to 1.6 mmhos/cm) when plants start to re-grow.

Common Problems

Needs an active climate, with good airflow, low RH and to grow relatively dry. Must have excellent soil drainage, but also container field drainage. Will be prone to fungal disease (Leafspot, Botrytis) when in high RV, little airflow and low light. Lavandula plants need to be dry when being shipped. No overhead watering in shipping, nor at retail environment.

Finishing Key Tips

Avoid planting plugs deep. Keep plug surface same as medium surface. Grow with low RH and high light. Let top soil dry in between waterings, but do not allow medium to dry, as high EC could cause root damage. Monitor for Botrytis, Root Rot, Leafspot, Aphids and Mites. For shipping, keep soil moist and plant dry.

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

Blue Spear

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