### Lupinus (Lupine)

#### 30ct Plug
- **Container:** Trade 1 Gallon Container
- **Finish:** 8-10 weeks
- **When To Plant:** Spring

#### 72ct Plug
- **Container:** Trade 1 Gallon Container
- **Finish:** 10-12 weeks
- **When To Plant:** Late summer or spring

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#### Growing Temperature:
- 60-65° F

#### Soil pH:
- 5.8-6.2

#### Fertility:
- Feed lightly at each watering with 75-100 ppm N.

#### Pests and Diseases:
- Aphids, thrips and whiteflies are the most common pests.
- Ascochyta, Colletotrichum, downy mildew, powdery mildew and rust can cause foliar diseases on lupines. Crown and root rots may be caused by the pathogens Fusarium, Phytophthora, Pythium and Rhizoctonia.
- It is best to avoid having moisture remain on the plant for too long. Water in the morning to allow the foliage to dry before sunset.

#### PGRs/Pinching:
- Multiple spray applications of 2,500-ppm daminozide (B-Nine or Dazide), 20-ppm paclobutrazol (Bonzi, Paczol or Piccolo), or 2,000-ppm daminozide + 3-ppm uniconazole (Concise or Sumagic) at seven-day intervals.

#### Holding Temperature:
- 50-60° F

#### EC Level:
- 1.5-2.0

#### Vernalization:
- Lupines are cold beneficial but we do recommend vernalizing them for 8-10 weeks at temperatures below 45° F. This greatly increases the bud count and uniformity.

#### Potting and Timing:
- Plant lupines in a high quality, well-drained, bark based media.

#### Moisture:
- Moderate to slightly dry. When irrigation is needed, water thoroughly and then allow media to dry slightly.

#### Planting Level:
- The top of plug should be level with the soil line.

#### Lighting:
- Long days (14-16 hours) are required to force into flower.

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**Grower Tips:**
- Under long days lupines will flower in roughly 10-12 weeks. Force under cool temperature for best results.