Begonia Gryphon
GrowerFacts Extra
Additional Culture Research from

PanAmerican Seed®
INTRODUCTION
To determine Begonia Gryphon:

- Best Germination Standards
- Plug Production
- Crop Time
  - 4” Pot
  - 6” Pot
  - 10” Tub
- Photoperiod Response
- PGR Response
- Does Gryphon prefer sun or shade?
As other Begonia, Gryphon germinates and grows faster and more uniform under high temp and high moisture conditions.

- **Germination:** 72°F/L  
  - Stage 2: 68-72°F, on bench

- **Germination:** 74-78°F, under tent  
  - Stage 2: 70-74°F, under tent
Gryphon plugs grow slowly without fertilizer.

No fertilizer for first three weeks

20-10-20 100ppm N every other watering
## ANNUALS

<table>
<thead>
<tr>
<th>Stage</th>
<th>Temp</th>
<th>Media Moisture</th>
<th>Fertilizer</th>
<th>Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>72-78°F (22-26)</td>
<td>L5</td>
<td>R0</td>
<td>Light is beneficial</td>
</tr>
<tr>
<td>2</td>
<td>70-74°F (21-23)</td>
<td>L4-5</td>
<td>R1 with 20-20-20 every other watering</td>
<td>Up to 2,500 f.c. (26,900 Lux)</td>
</tr>
<tr>
<td>3</td>
<td>68-72°F (20-22)</td>
<td>L3-4</td>
<td>R2 alternative 20-10-20 and 15-0-15</td>
<td>Up to 2,500 f.c. (26,900 Lux)</td>
</tr>
<tr>
<td>4</td>
<td>65-68°F (18-20)</td>
<td>L2-3</td>
<td>Same as stage 3</td>
<td>Up to 5,000 f.c. (54,000 Lux)</td>
</tr>
</tbody>
</table>

**288 cell, 9 weeks from sowing**
GERMINATION RECOMMENDATIONS

- Temperature: 72-78°F (22-26°C)
- Light: Required
- Moisture: Level 5
- Humidity: 100% RH
- Cover: No cover
- Days to germination: 8-10 days
- Plug tray size: 288/264 cells
- Plug time: 8-10 weeks

ANNUALS

PLUG RECOMMENDATIONS

- Begin fertilizer at 5 days after germination with 100ppm N 2-3 times/week from NH4-Nitrogen
- After true leaf emerge, increase to 150-200ppm N 2-3 times/week with alternative fertilizer program
Begonia Gryphon
Container Size, published 2017

ANNUALS

Gryphon grown out in multiple sized containers.

4” pot, 1 PPP
5 weeks from transplant

6” pot, 1 PPP
6” pot, 3PPP
5 weeks from transplant

10” pot, 1 PPP
10” pot, 3PPP
9 weeks from transplant
## CONTAINER SIZE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Potted Size</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4” - 4.5”</td>
<td>1 ppp</td>
<td>5-6</td>
</tr>
<tr>
<td>6”</td>
<td>1 ppp</td>
<td>6-7</td>
</tr>
<tr>
<td>6”</td>
<td>3 ppp</td>
<td>5-6</td>
</tr>
<tr>
<td>10” tub</td>
<td>3 ppp</td>
<td>9-10</td>
</tr>
</tbody>
</table>
Begonia Gryphon Photoperiod Response

4.5" pot

10 11 12 14 16 NI
PHOTOPERIOD RECOMMENDATIONS

- Begonia Gryphon is a Facultative short day plant with critical daylength at about 11 hours, the shorter daylength the faster flower.

- Plants will flower at 12 hours daylength but it takes much longer time, approximately 4 weeks after the 10 hour plants begin to flower.
Begonia Gryphon
PGR Response, published 2017

ANNUALS

Begonia Gryphon PGR Response

4" pot

B9 2500/
CCC 300ppm

B9 2500ppm

Control
Cycocel alone will cause phytotoxicity (the marginal discoloration in image above). Use B9 and CCC tank mix to reduce phytotoxicity.

Gryphon is very sensitive to Topflor and Bonzi. Plant could be stunted by a very low rate of Topflor or Bonzi and will take long time to grow out.
PGR RECOMMENDATION

Generally, PGR is not needed for Gryphon. But if necessary:

• B9 will give modest control and is recommended for cooler areas

• B9 and CCC tank mix will be more affective and is recommended in hot/humid conditions where risk of stem stretch is greater.
• Foliage is dark green with more silver spots standing out under shade condition.
• Full sun will turn foliage to brownish tone and make plant grow slower.
• Gryphon is more suitable for shade or partial shade condition.
RECOMMENDATIONS

• Prefer warm temperature (76-78F/24-26C) for germination but can be germinated in 72F/22C.

• Maintaining media high moisture constantly during first 3 weeks is key for good germination and uniform plug production.

• Fertilize with ammonia nitrogen before true leaf stage will speed up crop time.

• Generally no PGR needed, however, if necessary, B9 or B9/CCC tank mix works well, the latter is more effective.

• It is a shade plant. The foliage is dark green with more silver spots standing out under shade condition.