



Begonia Gryphon

GrowerFacts Extra

Additional Culture Research

from

PanAmerican Seed[®]

Begonia Gyphon

Culture Information, published 2017

PanAmericanSeed.

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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?



Begonia Gryphon

Germination, published 2017

PanAmericanSeed.

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As other Begonia, Gryphon germinates and grows faster and more uniform under high temp and high moisture conditions.



Single
Pelleted
Seed

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

Germination: 74-78F, under tent
Stage 2: 70-74F, under tent

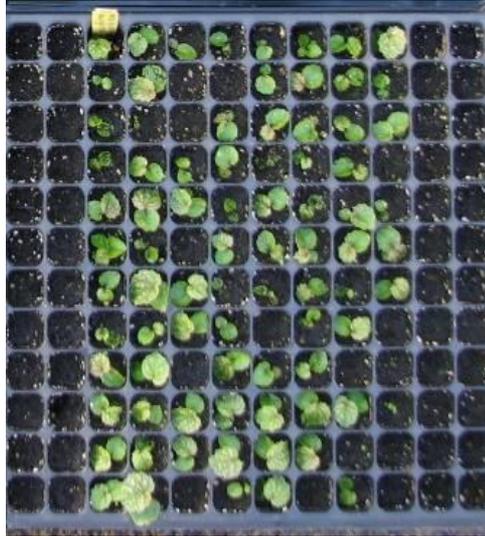
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Plug Production, published 2017

PanAmericanSeed.

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Gryphon plugs grow slowly without fertilizer.



No fertilizer for first three weeks



20-10-20 100ppm N every other watering

Single
Pelleted
Seed

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Plug Production, published 2017

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



288 cell, 9 weeks from sowing

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Germination and Plug Production, published 2017

PanAmericanSeed.

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GERMINATION RECOMMENDATIONS

- Temperature: 72-78F (22-26C)
- 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

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

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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

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Container Size, published 2017

PanAmericanSeed.

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CONTAINER SIZE RECOMMENDATIONS

– 4" - 4.5"	1 ppp	5-6 weeks
– 6"	1 ppp	6-7 weeks
– 6"	3 ppp	5-6 weeks
– 10" tub	3 ppp	9-10 weeks



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Photoperiod Response, published 2017

PanAmericanSeed.

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Begonia Gryphon Photoperiod Response

4.5" pot

10

11

12

14

16

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Photoperiod Response, published 2017

PanAmericanSeed.

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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.

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PGR Response, published 2017

PanAmericanSeed.

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Begonia Gryphon

PGR Response, published 2017

PanAmericanSeed.

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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.

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PGR Response, published 2017

PanAmericanSeed.

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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.

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Sun or Shade, published 2017

PanAmericanSeed.

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- 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.



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Culture, published 2017

PanAmericanSeed.

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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.