



Alternanthera Purple Prince

GrowerFacts Extra

Additional Culture Research

from

PanAmerican Seed®

Alternanthera Purple Prince

Germination and Photoperiod Effects

PanAmericanSeed.

ANNUALS CULTURE

Revised 03/2017

INTRODUCTION

To determine optimal germination conditions and photoperiod effects.

CONCLUSION

Optimal Germination:

- 72-76F/22-24C
- Under light
- With light vermiculite cover

Optimal Photoperiod:

- Grow plants with daylength longer than 12 hours to prevent undesirable flowering



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Germination Effects

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Temp: 65F
Dark
67% Germ

Temp: 65F
Light
72% Germ Yield



Temp: 72F
Dark
86% Germ

Temp: 72F
Light
94% Germ

Optimal Germination Conditions

*all with light vermiculite cover

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Effects of PGR's on Finished Plants, published 2015

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Revised 03/2017

INTRODUCTION

To determine the types and concentrations of PGR's to use when growing finished plants.

PGR's TESTED

- Tilt (propiconazol)
- Bonzi (paclobutrazol)
- Cycocel (chlormequat)
- Alar/B9 (daminozide)



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CONCLUSIONS

- Growth can be well regulated with daminozide or paclobutrazol to control height
- Propiconazol and chlormequat are not recommended
- Daminozide spray (2500 ppm), repeat 2 to 3 times as needed
- Paclobutrazol spray (16 ppm), repeat 2 to 3 times as needed
- A good moisture level is necessary before any PGR application to protect leaves from damage



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Plants at 7 ½ weeks after potting. Plants were treated three times.



Control
No PGR

Tilt
225 ppm

Bonzi
20 ppm sp

Cycocel
750 ppm

Alar/B9
2000 ppm

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Stunted plants resulted after 2 sprays of Tilt (propiconazol)



Leaf damage caused by Alar/B9 (daminozide)



Leaf damage caused by Cycocel (chlormequat)



Low moisture levels before any PGR treatments caused reactions. Leaves had insufficient surface tension.