# Pentas Graffiti®, KALEIDOSCOPE & Northern Lights® Series

## Pentas lanceolata F1 GRAFFITI


Bright Red


Lavender


Lipstick


Pink


Red Lace


Rose


Violet


White

## Pentas lanceolata F1 KALEIDOSCOPE


Appleblossom


Carmine


Deep Red


Deep Rose


Lilac


Pink

## Pentas lanceolata F1


Lavender

US Patent Number: 7,880,073

# The Best For Early Summer Sales!

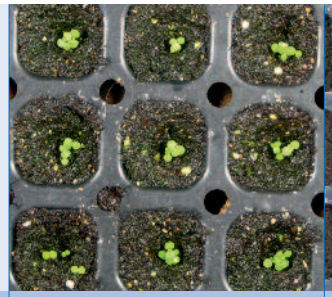
- Optimal cultural guidelines to produce the highest quality Pentas!
- The greatest number of usable seedlings!
- Tips from the pros help you maximize your profits!

Benary® beautyinside®

# *Pentas lanceolata*

## *Graffiti®, KALEIDOSCOPE & Northern Lights® Series – Examples of Optimum Growth*

**Spring Production for early Summer Sales**



| **Stages** | Germination 1 (Image: Day 8) | Germination 2 (Image: Day 22) | Bulking and Flower Initiation (Image: Day 33) | Initiated Bulking (Image: Day 50) | Transplanted Bulking (Image: Day 110) |
|---|---|---|---|---|---|
| **Stage Definitions** | From the time a seed is sown until radicle emergence takes place; usually with the root penetrating the media and some cotyledon development.<br>Environmental conditions necessary (varies with cultivar): Humidity in the air is 95-98% (humidification) in the air;<br>media moisture 4+ -5 | From the time cotyledon is observed until it is fully expanded; the roots have expanded throughout the media. Environmental conditions necessary (varies with cultivar): Dehumidify the air from 98% to 50 % media moisture during the wet cycle is usually 4-5 and 2-3 during the dry cycle.<br>**The wet-dry cycle should take place within 12-24 hours for most plants.** | The time it takes for the shoots to proportionately fill the plug cell; roots to develop throughout the media. Induction and initiation may occur; if buds are present, they should be few in number and small in size.<br>**The wet-dry cycle should take place within 12-24 hours for most plants.** | Seedlings develop from juvenile to mature, usually determined by the number of leave present (cultivar specific). Seedlings are receptive to initiation and flower bud development. **The wet-dry cycle should take place within 12-24 hours for most plants.** | Optimize plant shoot and root growth; usually 1:1. Flower buds are usually present and developing. **The wet-dry cycle should take place within 12-24 hours for most plants.** |
| **Approximate Age in Days** | **Day 1 to Day 8** | **Day 9 to Day 22** | **Day 23 to Day 33** | **Day 34 to Day 55** | **Day 56 to Day 110+** |
| **Relative Humidity** | 95-98% | 75% | 75% | 75% | 75% |
| **Media Moisture** | Wet (4+) | Wet (4) to Moist (3) | Wet (4) to Moist (3) | Wet (4) to Moist (3) | Wet (4) to Moist (3) |
| **Media pH** | 6.5-6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| **Media EC** | <0.5 | 0.75-1.0 | 1.0-1.2 | 1.2-1.5 | 1.2-1.5 |
| **Temperature Day and Night** | 75 °F (24 °C) | 75 °F (24 °C); No DIF | 66-68 °F (19-20 °C);<br>-2 to -3 °F (-1.5 to -2 °C)<br>*DIF or morning drop | 66-68 °F (19-20 °C);<br>-2 to -3 °F (-1.5 to -2 °C)<br>*DIF or morning drop | 66-68 °F (19-20 °C);<br>-3 to -3 °F (-2 to -3 °C)<br>*DIF or morning drop |
| **Total accumulated light per Day** | 10-50 f.c. | 1500-2000 f.c.<br>(4-6 mols/day) | 2000-2500 f.c.<br>(6-8 mols/day) | 3000-3500 f.c.<br>(10-12 mols/day) | 3500-4500 f.c.<br>(12-16 mols/day) |
| **Fertilize to maintain EC levels** | 14-4-14 @ 60-75 ppm N;<br>7-10 ppm P | 14-4-14 @ 60-75 ppm N;<br>7-10 ppm P | 14-4-14 @ 60-75 ppm N;<br>7-10 ppm P | 17-5-17 or 14-4-14 @<br>60-75 ppm N; 7-10 ppm P | 17-5-17 or 14-4-14 @<br>75-125 ppm N; 8-12 ppm P |
| **Plant Growth Regulators**<br>**(Recommended rates and frequency vary greatly by region. Contact your Benary Reps for more information.)** | | B-Nine spray @ 2500 ppm as needed, appx. Day 20 | | Use B-Nine spray @ 2500 ppm at the start of the Initiated Bulking phase; consider a second B-Nine spray @ 5000 ppm before transplant. | |
| **Early Summer Production for Summer Sales** | Same as above | Same as above | Same as above | **Temperature:**<br>72-78 °F (22-26 °C)<br>**Light:** 3500-5000 f.c.<br>(12-18 mols) | **Temperature:**<br>72-80 °F (22-27 °C)<br>**Light:** 4500-6000 f.c.<br>(16-22 mols) |

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