

## Cultivation guide Princess Lilies®

### Planting

Tissue culture propagated plants are delivered in 170 plug trays or in 7 cm pot (45 per crate) that have to be transplanted immediately into a 15-25 cm(diameter) container depending the market. The 170-plug can be planted direct in the container and should be planted just below soil surface. Growing plants in smaller pots first delays growth and flowering.

In Holland, November or December plantings gives earliest flowering. However in countries with more light earlier flowering is realizable and is it possible to plant earlier. The last planting month in Holland is June but in warmer countries it is advisable not to plant anymore after May due to the warmer summer-climate.

### Media

Preferably use a course grained peat mixture or a peat-coconut fiber mix (respective 60%/40%). The target pH-figure is between 6,0 and 6,5. Take care of good base fertilizer with an EC of 0,6 mS.

Alternatively, a slow release fertilizer can be used, though be careful that the nitrogen levels do not increase too much to maintain hard and compact plants of high quality.

### Watering and feeding

The first two weeks after planting irrigate with clean water only. Princess Lilies® uses a lot of fertilizer comparing to other crops. So from the third week onwards start fertilizing with water with an EC of 1,5 mS [N-K ratio: 2-1]. When the plant is well rooted the EC may be increased further to 2,0 mS. Gradually also add more potash to an N:K ratio of 1:2. Keep pot-soil moist at all stages, dryness causes yellow leaves and stress flowering.

### Temperature

Start cultivation at a temperature of 17 °C for a period of 4 weeks to develop a good root system. After this period a heating-temperature of 14 °C is ideal to initiate flowering and assure good quality compact plants. In areas with high light intensity this can be a few degrees higher.

### Light

Flowering of Princess Lilies® is induced by a day-length of 11 hours and up. Winter flowering may therefor be difficult in areas with shorter days and can only be reached by artificial lighting at an intensity of 4.000 lux or more for 13-16 hours.

Quality of plants grown in spring is usually much better as plants grown under light. In spring only two weeks earlier flowering can be reached by using artificial light but it is not economical to do.

High temperatures in combination with not enough light cause weak and vegetative plants. Therefor plants should get enough light especially in the last weeks before delivery so do not screen too much.

### Pest and diseases

Princess Lilies® are not sensitive for funguses or any other diseases. Use slugs granulate against slugs and keep an eye on aphids and thrips. Use of "Pirimor" can give leave scorch.

## Growth-regulators

Princess Lilies® are genetically dwarf, so do not need any growth regulator at any stage. It even has a negative effect on the plants.

## Cropping period

Depending on variety, season and growing temperature plants from a 170-plug tray can be delivered 14-20 weeks after planting.

An example of a Princess Lilies® planting schedule in Holland, growing plants in 17cm pots on ebb and flood floor:

Planting	Flowering	Cropping time
50	17-19	20
6	19-22	16
11	22-25	13
15	25-27	11
18	28-30	11
22	31-33	10

## Delivery of plants

Plants can be delivered when first flowering buds show colour. Make sure plants are sufficient moist when delivered. Prevent plants from being in transport for more than 72 hours because of risk of yellow leaves. Stick one original Princess Lilies® label in each individual plant.

## More Information

Royal Van Zanten / Van Zanten Plants B.V.  
Lavendelweg 15, Rijsenhout  
P.O. Box 265, 1430 AG Aalsmeer  
The Netherlands  
Telephone +31 (0)297 38 70 00  
Fax +31 (0)297 38 70 70  
[plants@royalvanzanten.com](mailto:plants@royalvanzanten.com)  
[www.royalvanzanten.com](http://www.royalvanzanten.com)

All growing details provided are purely indicative and prepared on basis of our experience, but we accept no responsibility for this, as differences in practice does appear.

AVR / 17-04-2006