

# Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 91

Grower: SION

Administration number: 005115

Variety: Phalaenopsis SI 3547

Product code: 23050

Number of plants: 3

Pot size: 12 cm

Plant height: 55 cm

Land of origin: Netherlands

Description: Phalaenopsis SI 3547

Start date: 05-11-2015

## Method of investigation

We submitted the investigated plants to a sales simulation, according to the conditions mentioned in the appendix. In the consumer phase we evaluated the plants once a week. The evaluation criteria are based on the evaluation card for the specific product ([www.vbn.nl](http://www.vbn.nl)). The most important criteria are the leaf quality (ornamental value foliage, scale 1-5) and when applicable, the number of good flowers. The shelf life ends when there are no good flowers left and/or the ornamental value is poor (score 1). The found average is based on the number of days in the consumer phase. The transport- and the store simulation are not included.

## Results

Average longevity(days)

>  
70,0

Rejection criteria

Number of tested plants

3

| Day | Phase               | Ornamental value foliage | number of good Flowers | number of flowers that have ended flowering | number of rejected buds | number of buds | number of stems |
|-----|---------------------|--------------------------|------------------------|---|-------------------------|----------------|-----------------|
| 0   | Consumer simulation | 5,0                      | 13,7                   | 0,0   | 0,0                     | 11,0           | 2,0             |
| 70  |                     | 5,0                      | 23,7                   |   |                         | 0,0            |                 |

The results in the table are the average values of all tested plants.

Geen kosten gerekend vanwege fout bij een andere test.

Planten worden afgeschreven bij x aantal bloemen en knoppen:

plant 1: 13

plant 2: 11

plant 3: 10

### All results per day

#### Observation: Ornamental value foliage

|        | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 5     | 5      |
| plant2 | 5     | 5      |
| plant3 | 5     | 5      |

#### Observation: number of good Flowers

|        | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 14.0  | 26.0   |
| plant2 | 13.0  | 23.0   |
| plant3 | 14.0  | 22.0   |

#### Observation: number of rejected buds

|        | Day:0 |
|--------|-------|
| plant1 | 0.0   |
| plant2 | 0.0   |
| plant3 | 0.0   |

#### Observation: number of stems

|        | Day:0 |
|--------|-------|
| plant1 | 2.0   |
| plant2 | 2.0   |
| plant3 | 2.0   |

#### Observation: number of buds

|        | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 14.0  | 0.0    |
| plant2 | 11.0  | 0.0    |
| plant3 | 8.0   | 0.0    |

#### Observation: number of flowers that have ended flowering

|        | Day:0 |
|--------|-------|
| plant1 | 0.0   |
| plant2 | 0.0   |
| plant3 | 0.0   |

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The quality management system of the Postharvest Knowledge Centre is ISO 9001:2015 certified.



91. Consumer simulation day number 0



91. Consumer simulation day number 35



91. Consumer simulation day number 70

## **Appendix**

### **Conditions Transport simulation**

|                        |                 |
|------------------------|-----------------|
| Duration (days)        | 7               |
| Packaging              | tray, sleeve    |
| Temperature            | 15°C ± 1°C      |
| Relative humidity      | 75 ± 10%        |
| Light level            | ± 0 µmol s-1m-2 |
| Light colour           | n.a             |
| Air refreshment        | every 2 hours   |
| Air speed              | < 0,5 m/s       |
| Ethylene concentration | < 0,1 ppm       |
| Water supply           | none            |

### **Conditions Store simulation**

|                        |                    |
|------------------------|--------------------|
| Duration (days)        | 6                  |
| Packaging              | tray, sleeve       |
| Temperature            | 20°C ± 1°C         |
| Relative humidity      | 60 ± 10%           |
| Light level            | ± 13,5 µmol s-1m-2 |
| Light colour           | 840                |
| Air refreshment        | every 2 hours      |
| Air speed              | < 0,5 m/s          |
| Ethylene concentration | < 0,1 ppm          |
| Water supply           | if necessary       |

### **Conditions Consumer simulation**

|                        |                    |
|------------------------|--------------------|
| Duration (days)        | 70                 |
| Packaging              | -                  |
| Temperature            | 20°C ± 1°C         |
| Relative humidity      | 60 ± 10%           |
| Light level            | ± 13,5 µmol s-1m-2 |
| Light colour           | 840                |
| Air refreshment        | every 2 hours      |
| Air speed              | < 0,5 m/s          |
| Ethylene concentration | < 0,1 ppm          |
| Water supply           | if needed          |

### **Key to symbols**

Kind of observation: Ornamental value foliage

|   |  |
|---|--|
| 5 | excellent, product without defects, 0% affected                  |
| 4 | good, product with minor quality criticism 0-5% affected         |
| 3 | satisfactory, product is still suitable for sale, 5-15% affected |
| 2 | moderate, product is not suitable for sale, 15-25% affected      |
| 1 | poor, product which a consumer will discard, >25% affected       |