

Report of investigation

Phalaenopsis Sion Orchids: 8090-04
 Test number: 1005
 Grower: SION
 Administration number: 005115
 Variety: SI 6570
 Product code: 23050
 Number of plants: 3
 Pot size: 12 cm
 Land of origin: Netherlands

Start date: 27-07-2023

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). 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

Percentage reached at day 56 100 %

Rejection criteria

Number of tested plants 3

| Day | Phase | Ornamental value foliage | number of good Flowers | number of buds | number of rejected buds | number of flowers that have ended flowering | number of stems | Root decay |
|-----|---------------------|--------------------------|------------------------|----------------|-------------------------|---|-----------------|------------|
| 0 | Consumer simulation | 4.0 | 11.0 | 6.7 | 0.3 | 0.0 | 2.0 | |
| 70 | | 4.0 | 13.7 | 0.0 | | | | 0.0 |

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

Plants are rejected at x number of flowers and buds

plant 1 : 9

plant 2: 7

plant 3: 9

All results per day.

Observation: Ornamental value foliage

| | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 4 | 4 |
| plant2 | 4 | 4 |
| plant3 | 4 | 4 |

Observation: number of good Flowers

| | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 11.0 | 15.0 |
| plant2 | 11.0 | 13.0 |
| plant3 | 11.0 | 13.0 |

Observation: number of buds

| | Day:0 | Day:70 |
|--------|-------|--------|
| plant1 | 8.0 | 0.0 |
| plant2 | 5.0 | 0.0 |
| plant3 | 7.0 | 0.0 |

Observation: number of rejected buds

| | Day:0 |
|--------|-------|
| plant1 | 0.0 |
| plant2 | 0.0 |
| plant3 | 1.0 |

Observation: number of flowers that have ended flowering

| | 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: Root decay

| | Day:70 |
|--------|--------|
| plant1 | 0.0 |
| plant2 | 0.0 |
| plant3 | 0.0 |

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1005. Consumer simulation day number 0



1005. Consumer simulation day number 35



1005. 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 lux |
| 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 | ± 1000 lux |
| 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 | ± 1000 lux |
| 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 |