

Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 984

Grower: SION

Administration number: 005115

Variety: Phalaenopsis SI 4272

Product code: 23050

Number of plants: 3

Pot size: 12 cm

Land of origin: Netherlands

Start date: 15-06-2023

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	12.0	7.7	0.3	0.0	2.0	
70		3.3	19.7	0.0				2.0

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 : 8

plant 2: 12

plant 3: 8

All results per day

Observation: Ornamental value foliage

	Day:0	Day:70
plant1	4	2
plant2	4	4
plant3	4	4

Observation: number of good Flowers

	Day:0	Day:70
plant1	12.0	16.0
plant2	12.0	25.0
plant3	12.0	18.0

Observation: number of buds

	Day:0	Day:70
plant1	4.0	0.0
plant2	13.0	0.0
plant3	6.0	0.0

Observation: number of rejected buds

	Day:0
plant1	1.0
plant2	0.0
plant3	0.0

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	1.0
plant2	1.0

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



984. Consumer simulation day number 0



984. Consumer simulation day number 35



984. 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 |