

Report of investigation

Phalaenopsis Sion Orchids: 8090-04
 Test number: 1039
 Grower: SION
 Administration number: 005115
 Variety: SI 6673
 Product code: 23050
 Number of plants: 3
 Pot size: 12 cm
 Plant height: 45 cm
 Land of origin: Netherlands

Start date: 19-10-2023

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) 67.7
 Percentage reached at day 56 100 %
 Rejection criteria end of flowering
 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	5.0	12.3	12.0	0.7	0.0	2.3	
35								3.0
63		5.0	16.3	0.0				
70		5.0	11.7	0.0				3.0

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 : 13
 plant 2: 14
 plant 3: 8

All results per day.

Observation: reject

	Day:63	Day:70
plant1		end of flowering
plant3	end of flowering	

Observation: Ornamental value foliage

	Day:0	Day:63	Day:70
plant1	5	5	5
plant2	5	5	5
plant3	5	5	5

Observation: number of good Flowers

	Day:0	Day:63	Day:70
plant1	10.0	16.0	12.0
plant2	16.0	25.0	17.0
plant3	11.0	8.0	6.0

Observation: number of buds

	Day:0	Day:63	Day:70
plant1	16.0	0.0	0.0
plant2	13.0	0.0	0.0
plant3	7.0	0.0	0.0

Observation: number of rejected buds

	Day:0
plant1	2.0
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	3.0
plant3	2.0

Observation: Root decay

	Day:35	Day:70
plant1	1.0	1.0
plant2	1.0	1.0
plant3	1.0	1.0

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1039. Consumer simulation day number 0



1039. Consumer simulation day number 35



1039. Consumer simulation day number 63



1039. 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	< 0,05 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	< 0,05 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	< 0,05 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