

# Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 621

Grower: SION

Administration number: 005115

Variety: Phalaenopsis CL 59

Product code: 23050

Number of  
plants: 3

Pot size: 12 cm

Plant height: 53 cm

Land of origin: Netherlands

Start date: 24-03-2021

## 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

Percentage reached at day 56 100

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	Black heart
0	Consumer simulation	4,0	25,3	0,0	0,0	15,3	3,0	
70		4,0	36,3			0,0		0,0

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

Planten worden afgeschreven bij x aantal bloemen en knoppen:

plant 1: 20

plant 2: 19

plant 3: 20

### 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	23.0	38.0
plant2	28.0	31.0
plant3	25.0	40.0

#### Observation: number of rejected buds

	Day:0
plant1	0.0
plant2	0.0
plant3	0.0

#### Observation: number of stems

	Day:0
plant1	3.0
plant2	3.0
plant3	3.0

#### Observation: number of buds

	Day:0	Day:70
plant1	18.0	0.0
plant2	11.0	0.0
plant3	17.0	0.0

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

	Day:0
plant1	0.0
plant2	0.0
plant3	0.0

**Observation: Black heart**

	Day:70
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.



621. Consumer simulation day number 0



621. Consumer simulation day number 35



621. 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