# Report of investigation



Phalaenopsis Sion Orchids: 8090-04

Test number: 1011 Grower: SION

Administration number: 005115

Variety: CL 7011 A
Product code: 23050
Number of plants: 3
Pot size: 12 cm
Plant height: 40 cm
Land of origin: Netherlands

Start date: 9-08-2023

### **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 (<a href="www.vbn.nl">www.vbn.nl</a>). 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	rejected	ithat have ended	number of stems	Root decay
10	Consumer simulation	4.0	13.0	11.3	4.7	0.0	3.0	
70		4.0	19.3	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 : 11 plant 2: 15 plant 3: 15

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## 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	12.0	16.0
plant2	15.0	19.0
plant3	12.0	23.0

Observation: number of buds

	Day:0	Day:70
plant1	9.0	0.0
plant2	12.0	0.0
plant3	13.0	0.0

Observation: number of rejected buds

	Day:0
plant1	3.0
plant2	4.0
plant3	7.0

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	3.0
plant2	3.0
plant3	3.0

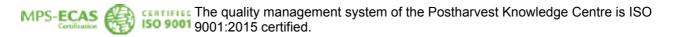
**Observation: Root decay** 

	Day:70
plant1	0.0
plant2	0.0
plant3	0.0

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1011. Consumer simulation day number 0



1011. Consumer simulation day number 35

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1011. Consumer simulation day number 70

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#### **Appendix**

#### **Conditions Transport simulation**

Duration (days) 7

Packaging tray, sleeve Temperature  $15^{\circ}\text{C} \pm 1^{\circ}\text{C}$  Relative humidity  $75 \pm 10\%$  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

Packagingtray, sleeveTemperature $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ Relative humidity $60 \pm 10\%$ Light level $\pm 1000 \text{ lux}$ Light colour840

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  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ Relative humidity  $60 \pm 10\%$ Light level  $\pm 1000 \text{ lux}$ 

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 critism 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

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