Report of investigation

Phalaenopsis Sion Orchids: 8090-04
Test number: 670
Grower: SION
Administration number: 005115
Variety: Phalaenopsis B1023
Product code: 23050

Number of plants:	3
Pot size:	12 cm
Plant height:	56 cm
Land of origin:	Netherlands

Start date: 09-06-2021

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). 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	end of flowering
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
0	Consumer simulation	4,3	19,3	0,0	0,0	21,0	3,3
70		4,0	28,7			1,0	

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: 22
plant 3: 16

All results per day

Observation: reject

	Day:70
plant3	end of flowering

Observation: Ornamental value foliage

	Day:0	Day:70
plant1	5	4
plant2	4	4
plant3	4	4

Observation: number of good Flowers

	Day:0	Day:70
plant1	20.0	31.0
plant2	19.0	41.0
plant3	19.0	14.0

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	4.0

Observation: number of buds

	Day:0	Day:70
plant1	22.0	1.0
plant2	27.0	1.0
plant3	14.0	1.0

Observation: number of flowers that have ended flowering

	Day:0
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.

670. Consumer simulation day number 0

670. Consumer simulation day number 35

project number 670

670. Consumer simulation day number 70

Appendix

Conditions Transport simulation

Duration (days)	7
Packaging	tray, sleeve
Temperature	15ºC ± 1ºC
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	20ºC ± 1ºC
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	20ºC ± 1ºC
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 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