

Report of investigation



Phalaenopsis Floricultura: 8090-02
Test number: 536
Grower: Floricultura
Administration number: 065889
Variety: Phalaenopsis 235197
Product code: 112897

Description: 8090 Phalaenopsis veredelaars, bij 50% uitbloei

Start date: 04-08-2022

Method of investigation

We submitted the investigated flowers to a sales simulation, according to the conditions mentioned in the appendix. In the consumer phase we evaluated the stems three times a week. The evaluation criteria are based on the evaluation card for the specific product (www.vbn.nl). When the ornamental value is insufficient we consider vase life as ended. With these data the average vase life has been calculated. The average vase life expresses the number of days that the flowers have good ornamental value for the consumer. So transport and store phase are excluded.

Results

Number of stems/vase: 0
Number of vases: 3
Land of origin: Netherlands

Average longevity 119,0
Total number of rejected stems on foliage 0
Standard deviation 0,0
Percentage reached at day 56 100 %
Main rejection criteria end of flowering
Ornamental value foliage 4,0
number of good Flowers 33,1
number of rejected buds 0,0
number of stems 2,0
number of buds 11,9
number of flowers that have ended flowering 0,0
Black heart 0,0

Rejection criteria	Number
end of flowering	1

Plants are rejected at X number of good flower and buds:

plant 1: 30
plant 2: 28
plant 3: 27

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



536. Consumer simulation day number 0



536. Consumer simulation day number 35



536. Consumer simulation day number 70



536. Consumer simulation day number 77



536. Consumer simulation day number 84



536. Consumer simulation day number 91



536. Consumer simulation day number 98



536. Consumer simulation day number 105



536. Consumer simulation day number 112



536. Consumer simulation day number 119

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)	119
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

Note: 13,5 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ is the same as 1000 lux (on table level)

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