

Report of investigation

Takii: 8075
Test number: 5
Grower: Takii
Administration number: e0048
Variety: Capsicum annuum Mambo gemengd
Product code: 107893
Number of plants: 6
Pot size: 11.5 cm
Plant height: 20 cm
Land of origin: Netherlands

Description: Houdbaarheidsonderzoek Takii

Start date: 10-07-2014

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 shelf life (days) 35,0
Rejection criteria wilting foliage
Number of tested plants 6
Percentage of plants with a longer shelf life than the test period 83

Day	Phase	Ornamental value foliage
-6	Store simulation	4,0
0	Consumer simulation	4,0
7		4,0
14		4,0
21		4,0
28		4,0
35		3,3

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

After the transport phase some plants dropped their leaves. At that moment the plants were quite dry.
After 4 weeks of consumer phase all plants had some brown leaf edges.

Conclusion:

The shelf life of the tested Capsicum mixed Mambo was very good.
The quality of the leafes was bad to good.
After 5 weeks consumer phase, the test was finished and all the plants were still on the table.

All results per day

Observation: rejection foliage

	27-08-2014
plant2	wilting foliage

Observation: Ornamental value foliage

	17-07-2014	23-07-2014	30-07-2014	06-08-2014	13-08-2014	20-08-2014	27-08-2014
plant1	4	4	4	4	4	4	4
plant2	4	4	4	4	4	4	1
plant3	4	4	4	4	4	4	4
plant4	4	4	4	4	4	4	4
plant5	4	4	4	4	4	4	4
plant6	4	4	4	4	4	4	3

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The quality management system of Knowledge Centre Product Quality is ISO 9001:2008 certified.



Date: 10-07-2014
Transport simulation
day number: -13



Date: 17-07-2014
Store simulation
day number: -6



Date: 06-08-2014
Consumer simulation
day number: 14

Appendix

Conditions Transport simulation

Duration (days)	7
Packaging	tray, sleeve, closed box
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
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)	35
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