

<sup>&</sup>lt;sup>1</sup> *Citrus* species and hybrids are named according to the nomenclature in Cottin, R. 2002. *Citrus of the world: a citrus directory*. Montpellier, France, INRA-CIRAD.

 $<sup>^2</sup>$  The scope of phytosanitary treatments does not include issues related to pesticide registration or other domestic requirements for contracting parties' approval of treatments. IPPC adopted treatments may not provide information on specific effects on human health or food safety, which should be addressed using domestic procedures prior to contracting parties approving a treatment. In addition, potential effects of treatments on product quality are considered for some host commodities before their international adoption. However, evaluation of any effects of a treatment on the quality of commodities may require additional consideration. There is no obligation for a contracting party to approve, register or adopt the treatments for use in its territory.

## **Treatment schedule**

## 3 °C or below for 16 continuous days

The efficacy is effective dose (ED)<sub>99.9986</sub> at the 95% confidence level.

The fruit must reach the treatment temperature before treatment exposure time is started. The fruit temperature should be monitored and recorded, and the temperature should not exceed the stated level throughout the duration of the treatment.

# **Other relevant information**

In evaluating this treatment the Technical Panel on Phytosanitary Treatments (TPPT) considered issues associated with temperature regimes and thermal conditioning, taking into account the work of Hallman and Mangan (1997).

This schedule is based on the work of De Lima *et al.* (2007) and developed sing cultival "Ellendale" and "Murcott".

## References

- De Lima, C.P.F., Jessup, A.J., Cruickshank, L., Walsh, C. & Jansfield, E.R. 2007. Cold disinfestation of citrus (*Citrus* spp.) for Meditermean here fly (*Cratitis capitata*) and Queensland fruit fly (*Bactrocera tryoni*) (Diptera: Techritidae). *Tewr ealand Journal of Crop and Horticultural Science*, 35: 39–50.
- Hallman, G.J. & Mangan, R.L. 1997. Concerns with an erature quarantine treatment research. In G.L. Obenauf, ed. 1997 Annual Internal A earch Conference on Methyl Bromide Alternatives and Emissions Reduction and Dieg. CA, CA, Nov. 3–5. pp. 79-1–79-4.

#### **Publication history**

This is not an official part of standard

2007-09 Treatment submitted in respectee to the Call for treatments

- 2007-12 TPPT meeting contineer and treatment of *Citrus reticulata* x *C.* sinensis for Bactrocera in 2007-106 and 2007-206H to create 2007-206F
- 2008-04 CPM added bject und topic Fruit fly treatments
- 2008-09 Supproved a member consultation via e-decision
- 2009-06 Senter puncher consumation
- 2010-07 TPPT in tring revised the text and recommended to SC for CPM-7 (2012) adoption
- 2011-11 SC recommended to CPM for adoption
- 2012-03 Treatment received formal objection
- 2012-09 TPPT virtual meeting drafted response to formal objections (no revision recommended)
- 2012-12 TPPT meeting revised the text and recommended to SC for CPM adoption
- 2013-06 SC recommended to CPM-9 for adoption
- 2014-03 Treatment received formal objection
- 2014-06 TPPT meeting drafted response to formal objections and revised text
- 2014-11 SC reviewed TPPT response and approved draft for CPM adoption
- 2015-03 CPM-10 adopted the treatment
- **ISPM 28**. Annex 17. Cold treatment for Bactrocera tryoni on Citrus reticulata x C. sinensis (2015). Rome, IPPC, FAO.

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