

ISPM 28 Annex 17

## INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES

### **ISPM 28 PHYTOSANITARY TREATMENTS**

# PT 17 Cold treatment for Bactrocera tryoni en Citrus reticulata x C. s. nensis

Adopted 201<u>5; publis</u> 2015

#### **Scope of the treatment**

This treatment comprises the cold treat ent of  $Eitrus\ reticulata \times Citrus\ sinensis^1$  (tangor) to result in the mortality of eggs and larve of  $Bactrocera\ tryoni$  (Queensland fruit fly) at the stated efficacy<sup>2</sup>.

Treatment descript in

Name of treatment Cold treatment for Bactrocera tryoni on Citrus reticulata × Citrus

Active in edient N/A

Treatmen vr Physical (cold)

Target pest Bactrocera tryoni (Diptera: Tephritidae) (Queensland fruit fly)

**Target regulated articles** Fruit of Citrus reticulata × Citrus sinensis (tangor)

<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>&</sup>lt;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 Mediterrinean hand fly (*C. atitis capitata*) and Queensland fruit fly (*Bactrocera tryoni*) (Diptera: To hritidae). www.ealand Journal of Crop and Horticultural Science, 35: 39–50.
- Hallman, G.J. & Mangan, R.L. 1997. Concerns with a grature of Arantine treatment research. In G.L. Obenauf, ed. 1997 Annual Internal of Alternatives and Emissions Reduction San Dieg. CA, CA, Nov. 3–5. pp. 79-1–79-4.

#### **Publication history**

This is not an official part of standard

2007-09 Treatment submed in response to the Call for treatments

2007-12 TPPT meeting contineed add treatment of *Citrus reticulata* x *C. sinensis* for *Bactrocera it*, 2007-106 add 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 Sen. r nber consumation

2010-07 TPPT in sting 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.

Publication history last modified: 2015-04