PT 17: Cold treatment for *Bactrocera tryoni* on *Citrus reticulata* x *C. sinensis*
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ISPM 28
Phytosanitary treatments for regulated pests

PT 17: Cold treatment for *Bactrocera tryoni* on *Citrus reticulata* × *C. sinensis*

Adopted 2015; published 2016

**Scope of the treatment**
This treatment comprises the cold treatment of fruit of *Citrus reticulata* × *Citrus sinensis*¹ (tangor) to result in the mortality of eggs and larvae of *Bactrocera tryoni* (Queensland fruit fly) at the stated efficacy².

**Treatment description**

<table>
<thead>
<tr>
<th>Name of treatment</th>
<th>Cold treatment for <em>Bactrocera tryoni</em> on <em>Citrus reticulata</em> × <em>Citrus sinensis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td>N/A</td>
</tr>
<tr>
<td>Treatment type</td>
<td>Physical (cold)</td>
</tr>
<tr>
<td>Target pest</td>
<td><em>Bactrocera tryoni</em> (Diptera: Tephritidae) (Queensland fruit fly)</td>
</tr>
<tr>
<td>Target regulated articles</td>
<td>Fruit of <em>Citrus reticulata</em> × <em>Citrus sinensis</em> (tangor).</td>
</tr>
</tbody>
</table>

**Treatment schedule**
3 °C or below for 16 continuous days

There is 95% confidence that the treatment according to this schedule kills not less than 99.9986% of eggs and larvae of *Bactrocera tryoni*.

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).

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¹ *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.

² 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.
This schedule is based on the work of De Lima et al. (2007) and developed using cultivars “Ellendale” and “Murcott”.

References


Publication history

This is not an official part of the standard.

2007-09 Treatment submitted in response to the Call for treatments.
2008-04 CPM-3 added subject under the topic Fruit fly treatments.
2008-09 SC approved for member consultation via e-decision.
2009-06 Sent for member consultation.
2010-07 TPPT meeting 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.


2015-07 IPPC Secretariat incorporated minor formatting changes.
2016-04 CPM-11 noted ink amendments in relation to “effective dose”.
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The International Plant Protection Convention (IPPC) is an international plant health agreement that aims to protect cultivated and wild plants by preventing the introduction and spread of pests. International travel and trade are greater than ever before. As people and commodities move around the world, organisms that present risks to plants travel with them.

Organization
- There are over 180 contracting parties to the IPPC.
- Each contracting party has a national plant protection organization (NPPO) and an Official IPPC contact point.
- Nine regional plant protection organizations (RPPOs) work to facilitate the implementation of the IPPC in countries.
- IPPC liaises with relevant international organizations to help build regional and national capacities.
- The Secretariat is provided by the Food and Agriculture Organization of the United Nations (FAO).