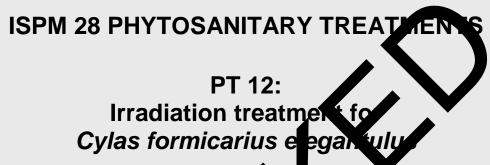


ISPM 28 Annex 12

# INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES



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### Scope of the treatment

This treatment applies to the irradiatio of frees and versibles at 165 Gy minimum absorbed dose to prevent the development of F1 adults of *Cylas y characarius elegantulus* at the stated efficacy. This treatment should be applied in accordance with the requirements outlined in ISPM 18:2003 (*Guidelines for the use of irradianal as a pytosanitary measure*)<sup>1</sup>.

#### Treatment descript

Name of treatment: Active ingred Treatment type: Target part:

Target regular Larticles:

Irradiation treatment for Cylas formicarius elegantulus

N/A

Irradiation

*Cylas formicarius elegantulus* (Summers) (Coleoptera: Brentidae)

All fruits and vegetables that are hosts of *Cylas formicarius elegantulus*.

<sup>&</sup>lt;sup>1</sup> The scope of phytosanitary treatments does not include issues related to pesticide registration or other domestic requirements for approval of treatments. Treatments also do not provide information on specific effects on human health or food safety, which should be addressed using domestic procedures prior to approval of 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**

Minimum absorbed dose of 165 Gy to prevent the development of F1 adults of *Cylas formicarius elegantulus*.

Efficacy and confidence level of the treatment is ED99.9952 at the 95% confidence level.

Treatment should be applied in accordance with the requirements of ISPM 18:2003 (Guidelines for the use of irradiation as a phytosanitary measure).

This irradiation treatment should not be applied to fruit and vegetables stored in modified atmospheres.

#### Other relevant information

Since irradiation may not result in outright mortality, inspectors may encouple in the but non-viable *Cylas formicarius elegantulus* (eggs, larvae, pupae and/or adults) during the inspection process. This does not imply a failure of the treatment.

Countries with established trapping and surveillance activities for *Cous formicatius elegantulus* need to take account of the fact that adult insects may be detected in the trappin the porting country. Although these insects will not establish, countries need to press whether such treatments are applicable in their countries, i.e. whether or not such findings would disrupt existing surveillance programmes.

The Technical Panel on Phytosanitary Treatments basis its entration of this treatment on the research work undertaken by Follet (2006) and Hallman (2001) to the efficacy of irradiation as a treatment for this pest in Ipomoea batatas.

Extrapolation of treatment efficacy to fruits and regetables was based on knowledge and experience that radiation dosimetry sy measure the ctual radiation dose absorbed by the target stem pest independent of host commodity, research studies on a variety of pests and dence fro nd e commodities. These include studies of g pests and hosts: Anastrepha ludens (Citrus the to nsa (Averrhoa carambola, Citrus paradisi and Mangifera paradisi and Mangifera india. A. susp nensi. indica), Bactrocera tryoni (Citra Lycopersicon lycopersicum, Malus domestica, Mangifera and Prunus *Cydia pomonella (Malus domestica* and artificial diet) indica. Persea america and Grapholita mol a (Malas domestica and artificial diet) (Bustos et al., 2004; Gould & von 04, Hallman & Martinez, 2001; Jessup et al., 1992; Mansour, 2003; von Windeguth, 1991; K 1man, Windeguth, 1986: von deguth Ismail, 1987). It is recognised, however, that treatment efficacy a fruit and vegetable hosts of the target pest. If evidence becomes has not been or a otep available show t t the ex olation of the treatment to cover all hosts of this pest is incorrect, then nt wi the treat

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#### **Publication history**

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