

ISPM 28 Annex 7

INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES

ISPM 28 PHYTOSANITARY TREATMENTS

PT 7: Irradiation treatment for fuit flies of the family Tephritidae (generic)

(2009)

Scope of the treatment

This treatment applies to the irradiation of faits and versitable at 150 Gy minimum absorbed dose to prevent the emergence of adults of fruit flip at the stated afficacy. This treatment should be applied in accordance with the requirements outlined in ISPM 18:20 3^{1} .

Treatment description

Name of treatment:

Active ingredient:

Treatment type:

Target pest:

Target regulated ticles.

Irra iation treatment for fruit flies of the family Tephritidae (sen tic)

Irradiation

N/A

Fruit flies of the family Tephritidae (Diptera: Tephritidae) All fruits and vegetables that are hosts of fruit flies of the family Tephritidae.

Treatment . edule

Minimum absoluted dose of 150 Gy to prevent the emergence of adults of fruit flies.

Efficacy and confidence level of the treatment is ED_{99,9968} at the 95% confidence level.

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

¹ 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.

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 encounter live, but non-viable larvae and/or pupae during the inspection process. This does not imply a failure of the treatment.

The Technical Panel on Phytosanitary Treatments based its evaluation of this treatment on the research work undertaken by Bustos *et al.* (2004), Follett & Armstrong (2004), Gould & von Windeguth (1991), Hallman (2004), Hallman & Martinez (2001), Hallman & Thomas (1999), Hallman & Worley (1999), Heather *et al.* (1991), Jessup *et al.* (1992), von Wideguth (1986) and von Windeguth & Ismail (1987) that determined the efficacy of irradiation as a treatment for this pest in Averrhoa carambola, Carica papaya, Citrus paradisi, Citrus reticulata, Citrus sinensis, Lycopersicon esculentum, Malus domestica, Mangifera indica, Persea americana, Prunus avium and Vaccinium aryme sum.

Extrapolation of treatment efficacy to all fruits and vegetables was sed on know ledge and experience that radiation dosimetry systems measure the actual radiate bsorbed the target n do pest independent of host commodity, and evidence from research ariet udies on of pests and commodities. These include studies on the following pests a hosts: ludens (Citrus nastre us paradisi and Mangifera paradisi and Mangifera indica), A. suspensa (Averrhoa caram l, Malus indica), Bactrocera tryoni (Citrus sinensis, Lycopersicon l omestica, Mangifera opers indica, Persea americana and Prunus avium), Cydia pomo ella (Mal loj stica and artificial diet) and Grapholita molesta (Malus domestica and artificial et) (Bustos al., 2004; Gould & von Windeguth, 1991; Hallman, 2004, Hallman & Martin et al., 1992; Mansour, 2003; von Windeguth, 1986; von Windeguth & Ismail 1987 is recognized, however, that treatment he hosts of the target pest. If evidence efficacy has not been tested for all potential ruit an ege becomes available to show that the extra lation of th treatment to cover all hosts of this pest is incorrect, then the treatment will be review

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 Publication history

 This is not an official part of the standard

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 2008-12 SC revised draft text for adoption via e-decision

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