

ISPM 28 Annex 2

INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES

ISPM 28 PHYTOSANITARY TREATMENTS

PT 2: Irradiation treatment for *Anastrepha obliqua* (2009)

Scope of the treatment

This treatment applies to the irradiation of ruits and veg tables at 70 Gy minimum absorbed dose to prevent the emergence of adults of *An strep* vobliqua as the stated efficacy. This treatment should be applied in accordance with the requirements of a ped in SPM 18:2003¹.

Treatment description

Active ingredient: N/A

Target pest: Anastrepha obliqua (Macquart) (Diptera: Tephritidae)

Target regulated: ticles: All fruits and vegetables, including nuts that are hosts of

Anastrepha obliqua.

Treatment so edule

Minimum absorb Adose of 70 Gy to prevent the emergence of adults of Anastrepha obliqua.

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 *Anastrepha obliqua* (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), Hallman & Martinez (2001) and Hallman & Worley (1999) that determined the efficacy of irradiation as a treatment for this pest in *Citrus paradisi* and *Mangifera indica*.

Extrapolation of treatment efficacy to all fruits and vegetables was basic nowledge and experience that radiation dosimetry systems measure the actual radiation do y the target absorbe n a variety pest independent of host commodity, and evidence from research studie pests and repha lu commodities. These include studies on the following pests and ho ns (Citrus paradisi and Mangifera indica), A. suspensa (Averrhoa carambo) Mangifera indica), Bactrocera tryoni (Citrus sinensis, Lycopersicon lycope ca, Mangifera lcum, indica, Persea americana and Prunus avium), Cydia pomonella omestica and artificial diet) and Grapholita molesta (Malus domestica and artificial s et al 2004; Gould & von et) (B Windeguth, 1991; Hallman, 2004, Hallman & Martinez, 2 1992; Mansour, 2003; von Windeguth, 1986; von Windeguth & Ismail, 1 however, that treatment is recogni efficacy has not been tested for all potential fruit and of the target pest. If evidence becomes available to show that the extrapolation of the atment to cover all hosts of this pest is incorrect, then the treatment will be reviewed

References

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Publication history

This is not an official part of the standard

2006-04 CPM-1 added topic *Irradiation treatment for* Anasterepha obliqua (2006-115)

2006-12 TPPT developed draft text

2007-05 SC approved draft text for MC

2007-10 Sent for MC under fast-track process

2008-07 TPPT revised draft text

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

2009-03 CPM-4 adopted Annex 2 to ISPM 28

ISPM 28. 2007: Annex 2 Irradiation treatment for Anastrepha obliqua (2009).

Rome, IPPC, FAO.

Publication history: Last modified August 2011