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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44338-2024

**Technical requirements for phytosanitary treatment of
Bactrocera dorsalis (Hendel)**

橘小实蝇检疫处理技术要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Technical Committee on Plant Quarantine Standardization (SAC/TC 271). This document was drafted by: China Institute of Inspection and Quarantine, Guangzhou Customs Technical Center, Chengdu Customs of the People's Republic of China, Agricultural Technology Extension Service Center, Shanghai Customs College, China Customs Science and Technology Research Center, China Agricultural University. The main drafters of this document are: Liu Tao, Li Li, Cao Wenzhe, Li Baishu, Zhao Jupeng, Wang Yongtao, Ma Chen, Jiao Binbin, Zhan Guoping, Zheng Chunsheng and Zhang Junzheng. Technical requirements for quarantine treatment of *Bactrocera dorsalis*

1 Scope

GB/T 44338-2024 sets the Chinese technical requirements for the phytosanitary treatment of the oriental fruit fly, *Bactrocera dorsalis*. It is the most consequential fruit fly in Asian trade: it attacks hundreds of hosts, it is the reason importing countries require treatment of mangoes, citrus, longan and much else, and the treatment schedule is what allows a consignment to move at all. The standard sets out the treatments and the parameters that make each of them effective: fumigation, with its basic requirements, technical parameters of dose, temperature, exposure and load factor, and operating procedure; and the other approved treatments with their own schedules, together with the requirements on the treatment facility and its equipment, the monitoring and recording of the treatment, the verification of efficacy, the handling of the consignment before and after treatment and the documentation issued. It took effect on 23 August 2024, and for an exporter to or from China this is the schedule a consignment is treated and certified against.

This document specifies the technical requirements for the implementation of quarantine treatments for the citrus fruit fly [*Bactrocera dorsalis* (Hendel)]. This document applies to the fumigation, cold treatment, irradiation and steam heat treatment of fruits and vegetables carrying *Bactrocera dorsalis*.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 15446 Terminology of radiation processing dosimetry

GB 16334 Practical dosimetry guide for food processing using gamma irradiation equipment

GB 18871 Basic Standard for Ionizing Radiation Protection and Radiation Source Safety

GB/T 21659 Guidelines for plant quarantine measures - Irradiation treatment

GB/T 31752 Technical Specification for Methyl Bromide Quarantine Fumigation Warehouse

GB/T 36854 Container fumigation operation procedures GBZ

2.1 Occupational exposure limits for hazardous factors in the workplace Part

1. Chemical hazardous factors SN/T 3282 Basic requirements for quarantine fumigation
SN/T 3291 General requirements for heat treatment SN/T 3401 Testing procedures for
residual concentration of fumigants after fumigation of imported and exported plants SN/T
4331 Basic technical requirements for quarantine irradiation of imported fruits SN/T 4862
Technical Guidelines for Cold Treatment of Fruit Flies SN/T 5398 Operating procedures for
cold treatment of imported and exported fruits ISPM

3 Terms and definitions

The terms and definitions defined in ISPM 5, GB/T 15446 and GB/T 31752 and the following apply to this document.

5 Glossary of phytosanitary terms ISPM

18 Guidelines for the use of irradiation as a phytosanitary measure (any measure) ISPM

32 Vapour heat treatment of papaya for *Bactrocera dorsalis dorsalis* on *Carica papaya*) ISPM

33 Irradiation treatment for *Bactrocera dorsalis* ISPM

42 Requirements for the use of temperature treatments as a phytosanitary measure (as phytosanitary measures) ISPM

43 Requirements for the use of fumigation as a phytosanitary measure (any measure)