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

WS/T 691-2020

**Operating procedures for vector biological control, food
production and processing enterprises
(English Translation)**

Issued on: August 17, 2020

Implemented on: February 1, 2021

Issued by: National Health Commission

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Drafting organizations of this standard. Shaanxi Provincial Center for Disease Control and Prevention, Shaanxi Provincial Food Safety Supervision Center, and Beijing Municipal Center for Disease Control and Prevention.

1 Scope

This standard specifies the principles and operating procedures for the prevention and control of vector organisms in food production and processing enterprises.

This standard applies to the prevention and control of rodents, flies, cockroaches and mosquitoes in food production and processing enterprises.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

GB/T 23795 Monitoring method for vector density of cockroaches GB/T 23796 Vector density monitoring method flies GB/T 23797 Vector density monitoring method for

mosquitoes GB/T 23798 Vector density monitoring method Rodent GB/T 27770 Vector density control level rodents GB/T 27771 Vector density control level mosquitoes GB/T 27772 Vector density control level flies GB/T 27773 Vector density control level cockroach GB/T 27776 Technical Specification for Integrated Vector Management, Food Production and Processing Enterprise GB/T 27777 Guidelines for the Safe Use of Rodenticides Anticoagulants GB/T 31714 Vector Biochemical Control Technology Guide Space Spray GB/T 31718 Technical Specification for Integrated Vector Management, Chemical Control of Flies GB/T 31719 Technical Specifications for Comprehensive Management of Vector Organisms Chemical Control of Cockroaches GB/T 31721-2015 Vector control terminology and classification

3 Terms and definitions

The following terms and definitions apply to this document.

Vector

Organisms that can transmit pathogenic organisms from the source of infection or the environment to humans through biological and/or mechanical means.

Note 1: The vector organisms involved in this standard are mosquitoes, flies, cockroaches and rodents.

Note 2: Rewrite GB/T 31721-2015, definition 2.1.1.

Food processing enterprises There are fixed workshops (places), processing equipment and facilities, and in accordance with certain technological processes, processing, production, and packaging of food for sale Product enterprise.

Rodent-proof structure or facilities A device that can prevent rodents from entering indoors or related places.

[GB/T 31721-2015, definition 4.4.3] 3.4 Housefly-proof facilities A device that can prevent flies from entering the room or touching food. Such as screen doors, screen windows, air curtain machines, door curtains, screen covers, etc.

[GB/T 31721-2015, definition 4.4.2]

4 Principles of Prevention

On the premise of food and personnel safety, combined with the environmental characteristics and industry requirements of food production and processing enterprises, to build protective facilities and physical Focus on prevention and control, carry out environmental remediation, remove the breeding grounds and habitats of rodents, flies, cockroaches, and mosquitoes, and restrict the use of chemical control when necessary it can effectively control the vector biological hazards of food production and processing

enterprises.

5.1.1 Investigation method

5.1.1.1

Rodent survey. The rat trace method in GB/T 23798 can be used both indoors and outdoors, and the sticking rat board method can also be used indoors as required.

The night trapping method can be used, and the stealing food method can be used for sewers and trenches; the investigation of rodent prevention facilities is conducted in accordance with GB/T 27770 and GB/T 27776.

5.1.1.2

Adult fly investigation. indoor use GB/T 23796 adult fly visual inspection method, outdoor use cage trap method; larvae investigation use GB/T Visual inspection of larvae in 23796. Fly prevention facilities survey is conducted in accordance with the requirements of GB/T 27772 and GB/T 27776.

5.1.1.3

Cockroach survey. indoor use the visual inspection method in GB/T 23795.

5.1.1.4

Investigation of mosquito larvae. The path method in GB/T 23797 can be used indoors and outdoors.

5.1.1.5

Other survey methods in the above national standards can also be used according to the site conditions.

5.1.2 Survey content

The survey content is as follows.

a) Investigate the indoor and outdoor rodent density in the environment outside the factory, office and living area, warehouse area, core processing area, auxiliary operation area, etc.

And distribution, construction and maintenance of rodent prevention facilities;

b) Investigate the breeding situation of flies, the density and distribution of adult flies, and the construction and maintenance of fly prevention facilities in various indoor and outdoor areas;

c) Investigate the cockroaches (nymphs), live egg sheaths, live egg sheaths, Distribution of cockroach tracks;

d) Investigate low-lying places in the internal and external environments, drains, trenches,

rain (sewage) wellheads, elevator shafts, sewage treatment stations, pools, and landscape water the breeding situation of mosquito larvae in standing water.

Record the survey results on the survey form (see Appendix A, Appendix B, Appendix C, Appendix D).

5.1.3 Investigation key areas and locations

The key areas and locations of the investigation are as follows.

a) Core processing areas. doors and windows such as locker rooms, pretreatment rooms, washing and disinfection rooms, batching rooms, processing and packaging workshops, packing workshops, etc.

Corners, wall gaps, processing and storage equipment, distribution boxes, pipeline holes, equipment gaps, pipe openings, drains, floor drains, etc.;

b) Warehouse area. such as cargo handling inspection area, packaging material warehouse, raw and auxiliary material warehouse, finished product warehouse, semi-finished product warehouse, damaged and recalled food warehouse Wait for doors, corners, windows, vents, shelves and goods, etc.;

c) Auxiliary operation areas. such as equipment rooms for gas, heating, electricity, water, air conditioning, inspection rooms, elevator shafts, temporary waste storage rooms, sewage treatment stations, etc.;

d) Environment outside the plant area. such as buildings and toilets, lawns, green belts, drainage ditches, rainwater wellheads, sewers, trenches, buildings Top surface of objects, pools, landscape water bodies, temporary garbage storage places, etc.;

e) Office and living areas. such as office corners, cabinets, desks and chairs, water dispenser water tanks, garbage containers, air-conditioning wall holes and condensation Water, green plant trays, etc.; restaurant processing, storage, and dining equipment and places; temporary rest places and indoor toilets.

5.1.4.1 Rodents

The rodent survey indicators are as follows.

a) Positive rate of rat trails. Check the room for rat trails, record the number of positive rooms and indicate the location; calculate the positive rate of rat trails according to GB/T 23798;

b) Qualified rate of rodent prevention facilities. the number of rodent prevention facilities and the number of qualified rodent prevention facilities in each area of the inspection record;

27770 calculate the pass rate of rodent prevention facilities;