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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YC/Z 637-2025

Technical regulation for artificial large-scale rearing and application of Arma chinensis (Fallou)

蠋蝽人工规模化繁育及应用技术规程

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the State Tobacco Monopoly Administration.

This document is under the jurisdiction of the Agricultural Subcommittee of the National Tobacco Standardization Technical Committee (SAC/TC 144/SC 2).

1 Scope

This document specifies the facilities and materials, breeding methods, and product quality requirements for the large-scale artificial breeding of the flying bug [Arma chinensis (Fallou)].

Testing and evaluation, storage, product packaging and transportation, release application technology, record management, etc.

This document applies to the artificial breeding of stink bugs and their control over lepidopteran pests such as tobacco budworms, cotton bollworms, and beet armyworms.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

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Arma chinensis (Fallou) it belongs to the order Hemiptera, superfamily Pentatomoidea, and family Pentatomidae.

Note: Its morphological characteristics and biological properties are described in Appendix A.

Seed bugs

Superior adult army bugs collected from the wild or artificially bred in other breeding bases, with breeding bugs weighing >=80 mg and preying on 3rd instar army bugs per hour.

There are more than 1.5 larvae.

Rejuvenation

The process of restoring the survival rate, developmental duration, and reproductive capacity of stink bugs that have degenerated after several generations of artificial breeding to normal levels.

Hatching rate

The proportion of first-instar nymphs that hatch from the eggs to the total number of eggs tested.

fertility rate

The proportion of female insects capable of laying eggs after mating with male and female adults out of the total number of female insects tested.

Predation capacity

The number of target pests preyed on by an adult stink bug that has been starved for 24 hours per unit time.

4.1.1 Seed Preservation Room

Using an artificial climate chamber with adjustable temperature (5°C~50°C), relative humidity (50%~95%), and light intensity (5000 lx~10000 lx), equipped with

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