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

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**Toxicological test methods for pesticides registration -- Part 1:
General principles
(English Translation)**

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Foreword

GB/T 15670 "Pesticide Registration Toxicology Test Method" is divided into the following parts.

---Part 1: General Provisions;

---Part 2: Horn's method for acute oral toxicity test;

- Part 3: Sequential method of acute oral toxicity test;
- Part 4: Probability unit method of acute oral toxicity test;
- Part 5: Acute dermal toxicity test;
- Part 6: Acute inhalation toxicity test;
- Part 7: Skin irritation/corrosion test;
- Part 8: Acute eye irritation/corrosion test;
- Part 9: Skin allergy (sensitization) test;
- Part 10: Short-term repeated oral toxicity (28 days) toxicity test;
- Part 11: Short-term repeated transdermal (28 days) toxicity test;
- Part 12: Short-term repeated inhalation exposure (28 days) toxicity test;
- Part 13: Subchronic toxicity test;
- Part 14: bacterial reverse mutation test;
- Part 15: In vivo mammalian bone marrow polychromatic erythrocyte micronucleus test;
- Part 16: In vivo mammalian bone marrow cell chromosome aberration test;
- Part 17: Chromosome aberration test of mammalian spermatogonia/spermocytes;
- Part 18: Rodent Dominant Lethal Test;
- Part 19: In vitro mammalian cell chromosome aberration test;
- Part 20: In vitro mammalian cell gene mutation test;
- Part 21: In vivo unscheduled DNA synthesis (UDS) test of mammalian liver cells;
- Part 22: In vitro mammalian cell DNA damage and repair/extraprocedural DNA synthesis test;
- Part 23: Teratogenicity test;
- Part 24: Two-generation reproduction toxicity test;
- Part 25: Acute delayed neurotoxicity test;
- Part 26: Chronic toxicity test;
- Part 27: Carcinogenicity test;
- Part 28: Chronic toxicity and carcinogenic combined test;
- Part 29: Metabolism and toxicokinetics test.

This part is Part 1 of GB/T 15670.

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

This part is proposed and managed by the Ministry of Agriculture of the People's Republic of China.

Drafting unit of this section. Pesticide Inspection Institute of Ministry of Agriculture.

1 Scope

This part of GB/T 15670 specifies the principle requirements, test content and safety evaluation of pesticide registration toxicology test.

This section applies to toxicological tests for pesticide registration.

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

GB 14923 Laboratory Animals Genetic Quality Control of Mammals Laboratory Animals
GB/T 14924.1 General quality standard for compound feed for laboratory animals GB
14925 Laboratory Animal Environment and Facilities

3 Terms and definitions

The following terms and definitions apply to this document.

Pesticide

Used to prevent, eliminate or control diseases, pests, grasses and other harmful organisms that endanger agriculture and forestry, and to regulate plants and insects purposefully the chemical synthesis of growth or a substance or a mixture of several substances derived from biological or other natural substances and their preparations.

Active ingredient

The biologically active part of the original drug or preparation.

Technicalmaterial

The final product composed of active ingredients and impurities directly obtained in the production process.

Preparation

The effective ingredients of pesticides can effectively achieve the so-called control effect and the pesticide processing form with certain components.

Test substances

The single chemical or mixture being tested.

Allowable daily intake; ADI Human beings consume a certain substance daily throughout their lives without producing detectable estimates of health hazards. Ingestible scale per kilogram of body weight Show, the unit is mg/kg body weight.

Target organ

An organ that causes a significant toxic effect in the body.

Dose

The amount of the test substance given is expressed by the mass of the test substance received per unit body weight of the experimental animal (mg/kg body weight).

Median lethal dose

LD50

The statistical dose of the toxicant that caused half of the deaths of the experimental animals after one time or multiple administrations of the test substance within 24 hours.

Expressed by the weight of the test substance per unit body weight of the experimental animal (mg/kg body weight).

3.10

Dose-response relationship the relationship between dose and the incidence of specific effects.

3.11

Dose-effect relationship Within a certain range, the relationship between dose increase and decrease and effect size change.

3.12

No adverse effects observed Dose level no observed adverse effect level; NOAEL Under the specified test conditions, using the existing technical means and detection indicators, the test substance that failed to observe the harmful effects related to the poisoning is the most High dose or concentration.

3.13

The lowest dose level of adverse effects observed lowest observed adverse effect level; LOAEL Under the specified test conditions, using existing technical means and detection indicators, the lowest dose of the test substance with harmful effects related to the poisoning Amount or concentration.