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

SN/T 2497.17-2010

**Test method of import and export dangerous chemicals. Part
17: Test of behavioral toxicology in mammal**

进出口危险化学品安全试验方法 第17部分：哺乳动物行为毒理学试验
(English Translation)

Issued on: March 2, 2010

Implemented on: September 16, 2010

Issued by: General Administration of Customs

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Foreword

SN/T 2497 "Test Methods for Chemical Safety & Exports dangerous" series of standards is divided into 29 parts.

- Part 1. mammalian liver cells in vivo DNA synthesis (UDS) test;
- Part 2. plaque-forming cells (PFC) test;
- Part 3. Large Zhuan reproduction test;
- Part 4. Saccharomyces cerevisiae mitotic recombination test;
- Part 5. testicular cells UDS test;
- Part 6. mammalian cells in vitro sister chromatid exchange test;
- Part 7. mouse ear swelling test;
- Part --- Article 8. fossa lymph node assay;
- Part 9. Determination of serum hemolysin test;
- Part --- Article 10. T lymphocyte proliferation assay test;
- Part 11. germline mutation assay;
- Part 12. single cell gel electrophoresis test;
- Part 13. fluorescence in situ hybridization;
- Part --- Article 14. SDS- polyacrylamide gel electrophoresis;
- Part 15. PCR-SSCP experiment;

- Part --- Article 16. Western-Blot test;
- Part 17. Behavior of mammalian toxicology tests;
 - Part 18. Detection of DNA adducts;
 - Part 19. NorthernBlot experiment;
 - Part 20. Bradford protein assay;
 - Part 21. agarose gel electrophoresis;
 - Part 22. T_m value determination method of DNA;
 - Part 23. organelle separation experimental methods;
 - Part 24. cellular immunity in vitro assay method;
 - Part 25. humoral immune function tests;
 - Part 26. macrophage function tests;
 - Part 27. Flow cytometry of apoptosis;
 - Part 28. Application shuttle plasmid mutations Inspection;
 - Part 29. Biochemical Oxygen Demand (BOD) was measured.

This is Part 17 SN/T 2497 series of standards.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section is responsible for drafting unit. People's Republic of China Tianjin Entry-Exit-Entry Inspection and Hunan People's Republic of China Quarantine Bureau.

1 Scope

SN/T 2497 provisions of this part of the mammal behavior and export of dangerous chemicals toxicology testing terms and definitions, test side Law, test results and test report.

This section applies to detect the import and export of hazardous chemicals toxic to mammals behavior.

2 Normative references

The following documents contain provisions which, through reference SN/T 2497 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to

use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 14924.1 animal feed common quality standards GB 14925 Laboratory Animal Facilities and Environment

3 Terms and Definitions

The following terms and definitions apply to this section.

Detrimental changes in the structure or function of the nervous system due to exposure to chemical, biological or physical factors caused.

No maximum dose and exposure-related adverse effects.

4 Major instruments and equipment

Maze was used to test for learning and memory function in the most widely used devices, this standard for spatial memory function in animal Introduction Radiation force maze, water maze and T-shaped maze.

5.1 Test Animals

5.1.1

Experimental animal products, the Department of Common rodents are rats. The average difference between the start of the test weight of the animals of each sex should not exceed $\pm 20\%$.

5.1.2 Number of animals

When tested individually, each dose group and the control group to select at least 20 animals (female, male and female).

5.1.3 Feeding Conditions

Test animals prior to testing should be fed at least 5d in the cage, in order to accommodate the animal test conditions. Experimental animal breeding and the environment Facilities should meet the GB 14924.1 and GB 14925.

5.2 Test substance

Test substance may be a solid, liquid, gas or vapor. Chemical properties of the test sample before the test response, and purity (impurities contained important),