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

GB/T 14927.2-2008

Replacing GB/T 14927.2-2001

**Laboratory animal - Immunological marker of inbred mice and
rats**

实验动物 近交系小鼠、大鼠免疫标记检测法

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Foreword

GB/T 14927 is divided into two parts.

--- Part 1 as "experimental animals inbred mice, rats and biochemical assay mark";
--- Part 2 as "experimental animals inbred mice, rats immunolabeling assay." This section GB/T Part of 214,927. Since the implementation of this section, instead of GB/T 14927.2-2001 "animal inbred mice, rat skin graft detection law". This part of the main technical differences compared with the GB/T 14927.2-2001 as follows:

- a) Amendment of experimental animals inbred mice, rat skin transplantation in part;
- b) increase the mouse H-2 haplotypes trace cytotoxicity assay;
- c) The part of the name was changed to "animal inbred mice, rats immunolabeling assay." Appendix A of this section is an informative annex. This part of the National Standardization Technical Committee of experimental animals and focal points. This part of the National Standardization Technical Committee responsible for drafting the experimental animals. The main drafters of this section. Xing Ruichang, Liu bicyclic, Mali Ying, Yuebing Fei, Bao Shimin. This part of the standard replaces the previous editions are.

--- GB/T 14927.2-1994, GB/T 14927.2-2001. Experimental animals Inbred mice, rats immunolabeling assay

1 Scope

GB/T 14927.2-2008 is the Chinese national standard on laboratory animal - immunological marker of inbred mice and rats, in the field of agriculture. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 March 2009. Classification: ICS 65.020.30, CCS B44. This page is published from the official record of

the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 14927 provisions of this part of the inbred mice, rats and skin grafting method inbred mouse H-2 haplotypes (Haplo- type) detection method. This section inbred mice, rat skin grafting method for checking the inbred mice and rats genetic purity in breeding process to And genetic monitoring of inbred mice and rats in the breeding process. Inbred mouse H-2 haplotype (Haplotype) suitable detection method It used inbred mouse strains and nurturing the breeding process of genetic monitoring, detection of H-2 antigen main complex area of Area D and K type.

2 Inbred mouse and rat skin graft law

2.1 Technical Principle Graft can be accepted each other in the same inbred that syngeneic transplant (isograft) is successful. Graft rejection in mutually different inbred lines, that allograft (alograft) was unsuccessful. F1 generation of animals can be a parent to accept any tissue grafts, parents can not accept the F1 generation implant. F1 generation of animals can be accepted after the F2 generation graft generations of animals. Parental lines can accept certain F2 generations after generations graft animals, but most of exclusion. This part of the back and tail skin grafting skin transplantation. The same principle of the two methods, and has the same potency standard.

2.2 dorsal skin grafting

2.2.1 Equipment and Materials

2.2.1.1 fixed plate (18cm x 12cm).

2.2.1.2 sodium pentobarbital (medical).

2.2.1.3 medical adhesive plaster.

2.2.1.4 Vaseline.

2.2.1.5 powder sodium penicillin G (80 million U, human or veterinary). 2.2.1.6 3% iodine tampons. 2.2.1.7 75% alcohol cotton ball.

2.2.1.8 ophthalmic scissors.

2.2.1.9 ophthalmic tweezers.

2.2.1.10 disposable syringe (1mL).

2.2.1.11 gauze (cut 40mm long, 25mm wide and several pieces; thick layer of 2 to 3 layers of several pieces, which is coated Vaseline and powder blue ADM G sodium).

2.2.1.12 made of cotton tampons.

2.2.1.13 surgical equipment placed in an autoclave 121 °C, 40min autoclaved.

2.2.2 Procedure

2.2.2.1 randomly with sex 4 weeks to 8 weeks 10 animals, animals can be derived from the basis of kinship group or expand the group.

2.2.2.2 each animal were weighed separately numbered weight strain detailed records of the name, sex, date of birth, lineage and other features.

2.2.2.3 with sterile normal saline 0.7% solution of sodium pentobarbital.

2.2.2.4 intraperitoneal injection of 0.7% sodium pentobarbital anesthetized animals. Each 10g body weight of mice injected 0.1mL, rats per 20g