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

GB/T 13917.4-2009

**Laboratory efficacy test methods and criteria of public health
insecticides for pesticide registration -- Part 4: Mosquito coil
(English Translation)**

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Foreword

GB/T 13917 "Laboratory efficacy test methods and criterions of public health insecticides for pesticide registration" is divided into 10 parts:

- Part 1: Spray fluid;
- Part 2: Aerosol;
- Part 3: Smoke generator and smoke tablet;
- Part 4: Mosquito coil;
- Part 5: Vaporizing mat;
- Part 6: Liquid vaporizer;
- Part 7: Bait;
- Part 8: Dutsable powder and chalk;
- Part 9: Repellent;
- Part 10: Analogous site.

This part is the part 4 of GB/T13917.

This part replaces GB 13917.4-1992 "Efficacy test methods of public health insecticides for pesticide registration - Method of laboratory efficacy test for mat" and GB/T 17322.4-1998 "Laboratory efficacy criterions of public health insecticides for pesticide registration - Coil".

As compared with GB 1397.4-1992 and GB/T 17322.4.4-1998, the main changes in this part are as follows:

- COMBINE GB 1397.4-1992 and GB/T 17322.4.4-1998, to make the methods and evaluations are reflected in the same standard and make it more convenient to apply;
- For the requirements of standard test insects, MODIFY it into: Use standard test insects of laboratory-bred sensitive strains;
- MODIFY and DEFINE the age of the tested insects;
- ADJUST the number of test insects;
- MODIFY "Start timekeeping after mosquito coil is lit" into "After lighting it at another place for 5 min, move it in a cylinder to generate smoke for 1 min";

Laboratory efficacy test methods and criteria of
public health insecticides for pesticide registration -
Part 4: Mosquito coil

1 Scope

This part of GB/T 13917 specifies the indoor medicinal efficacy measurement methods and evaluation criterion for mosquito coils.

This part applies to the efficacy test methods and criteria of public health insecticides for pesticide registration of mosquito coil.

2 Test materials

Standard test insects of sensitive strains raised in the laboratory.

Culex pipiens pallens (Northern region) or *Culex pipiens quinquefasciatus* (Southern region), female adults which did not suck blood on days 3 to 5 after emergence.

3.1 Cylinder device (Figure 1)

The colorless transparent cylinder (C) is supported on the bracket (I); there is a colorless transparent circular plate (E, F) above and below the cylinder. The

upper circular plate (E) has a round hole in the center and is plugged with a rubber stopper (G); the lower circular plate (F) has a round hole in the center and is plugged with a rubber stopper (H). The rubber stopper (H) has a mosquito coil holder (B) for placing the tested mosquito coil (A); the joints of the cylinder and the upper and lower circular plates are respectively lined with rubber gaskets (D1, D2) to prevent smoke leakage.

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