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

GB/T 30664-2014

Chemicals -- Amphibian metamorphosis assay

化学品 两栖动物变态试验

(English Translation)

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Foreword

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

The Standards and Organisation for Economic Co-operation and Development (OECD) guidelines for testing of chemicals No.231 (2009 Nian) "amphibian metamorphosis Test Review Price "agreement (in English) technical content.

This standard is managed by the National Standardization Technical Committee chemicals dangerous (SAC/TC251) and focal points.

This standard was drafted. China Inspection and Quarantine Science Research Institute, Research Center for Eco-Environmental Sciences, Chinese Academy of.

1 Scope

This standard specifies the chemical test methods amphibian metamorphosis principle, the method described, test procedures, data and reports.

This standard applies to chemical testing amphibian metamorphosis.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Standard Guide ASTM E729 with fish, macroinvertebrates and amphibians were tested material acute toxicity test
(Standard guide for conducting acute toxicity tests on test materials with fishes, macroinvertebrates, and amphibians) ASTM E1439 Xenopus embryos Standard Guide teratogenicity test (FETAX) [Standard guide for conducting the frog embryo teratogenesis assay-Xenopus (FETAX)] Nieuwkoop PD, Faber J Xenopus Growth Table (Normal table of Xenopus laevis)

3 Abbreviations

The following abbreviations apply to this document.

AMA. amphibian metamorphosis test (amphibian metamorphosis assay).

HPT. hypothalamic - pituitary - thyroid (hypothalamic-pituitary-thyroid).

SVL. mouth to cloaca length (snout to vent length).

hCG. human chorionic gonadotropin (human chorionic gonadotropin).

DO. Dissolved oxygen (dissolved oxygen).

MTC. the maximum tolerated concentration (maximum tolerated concentration).

LC50. lethal concentration (lethal concentration 50).

TSH. thyroid stimulating hormone (thyroid stimulating hormone).

HLL. hindlimb length (hindlimb length).

OECD. Organization for Economic Cooperation and Development
(organisation for economic co-operation and development).

NF. Nieuwkoop PD, Faber J (1994) on the normal development of Xenopus laevis morphological criteria developmental stage classification (Nieuwkoop and Faber).

4 Principle of the method

4.1

AMA is a screening test, its purpose is to empirically identify possible substances interfere with the normal function of the HPT axis. In HPT axis Paul Keep within the scope of the structure and function, AMA represents a generalized vertebrate model approach. This is an important trial because two Amphibians metamorphosis is a study of more mature, thyroid-dependent process that HPT axis of the active substance within the responsive and this is currently the only active thyroid test animals detect morphological development.