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

中华人民共和国国家标准

GB 8921-2011

Replace GB 8921-1988

**Limit standards for ^{226}Ra in phosphate fertilizer
and its compound fertilizer**

磷肥及其复合肥中 ^{226}Ra 镭限量卫生标准

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**Standardization Administration of the People's Republic of
China**

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Foreword

Chapter 4, Section 5.1 and Chapter 6 in this standard is compulsory, but the rest is recommendatory.

This standard is drafted according to the rules given by GB/T 1.1-2009.

This standard will replace GB 8921-1988 *Limit standards for ^{226}Ra in phosphate fertilizer and its compound fertilizer*, compared with GB 8921-1988, the modifications of this standard mainly include:

—The applicable scope is expanded from phosphate fertilizer to phosphate fertilizer and its compound fertilizer;

—This revision reserves the limit requirement of GB 8921-1988 upon ^{226}Ra in phosphate fertilizer, and deletes the requirements on phosphate ore.

—Provide the methods of sample collection and preparation in the form of Annex, and add the method of analyzing ^{226}Ra with γ energy spectrum.

This standard is proposed and centralized by the Ministry of Health of the People's Republic of China.

This standard is explained by the Ministry of Health of the People's Republic of China.

This standard is drafted by the Health Supervision Institute of Jinlin Health Department.

This standard is mainly drafted by Yan Chuang, Sun Wuchang, Li Tao, Shi Yan, An Fucai, Piao Yongde and Wang Kexin.

The publication situation of all previous versions replaced by this standard:

- GB 8921-1988.

Limit standards for ^{226}Ra in phosphate fertilizer and its compound fertilizer

1. Scope

This standard stipulates the limited health indicators of ^{226}Ra in phosphate fertilizer and its compound fertilizer, as well as the corresponding sampling and inspection requirements, and the interpretation of the results.

This standard applies to the agricultural (including vegetables, fruits and other food crops) phosphate fertilizer.

2. Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB 11713 Standard methods of analyzing low specific gamma radioactivity samples by semiconductor gamma spectrometers

GB 11743 Determination of radionuclides in soil by gamma spectrometry

3. Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

3.1

Phosphate fertilizer

It is a kind of chemical fertilizer, of which phosphorus is the unique nutrient element.

3.2

Compound phosphate fertilizer

It is a kind of chemical fertilizer containing phosphorus and other nutrient elements (such as nitrogen and potassium).

4. ^{226}Ra limit in phosphate fertilizer and its compound fertilizer

^{226}Ra content in phosphate fertilizer and its compound fertilizer shall not higher than 500 $\text{Bq}\cdot\text{kg}^{-1}$.



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