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

GB/T 33804-2025

Replacing GB/T 33804-2017

Fertilizer grade potassium humate

肥料级腐植酸钾

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 33804-2017 "Potassium humate for agricultural use". Compared with GB/T 33804-2017, except for the structural adjustment and compilation In addition to logical changes, the main technical changes are as follows.

- a) The terms and definitions of "humic acid from mineral sources" and "potassium humate for agricultural use" have been deleted (see 3.1 and 3.2 of the 2017 edition);
- b) Added the term and definition of "fertilizer grade potassium humate" (see 3.1), and changed the term and definition of "soluble humic acid" (see 3.2, 3.3 of the 2017 edition);
- c) Changed some technical index requirements of the product (see Table 1, Table 1 of the 2017 edition);
- d) The limit requirements for toxic and hazardous substances (see 4.3, 4.3 of the 2017 edition) and their test methods (see 6.10, 5.9);
- e) Added sample reduction and specimen preparation (see Chapter 5);
- f) The determination method of soluble humic acid content has been changed (see 6.2, 5.3 and Appendix A of the 2017 edition);
- g) The determination method of potassium content has been changed (see 6.3, 5.4 and Appendix B of the 2017 edition);
- h) Added the determination method of organic matter content (see 6.5);
- i) The method for determining sodium content has been changed (see 6.6, 5.6 and Appendix C of the 2017 edition);

- j) Added the method for determining particle size (see 6.9);
- k) The inspection rules have been changed (see Chapter 7, Chapter 6 of the 2017 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Fertilizers and Soil Conditioners (SAC/TC105).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2017 as GB/T 33804-2017;
- This is the first revision.

1 Scope

This document specifies the requirements, sample reduction and sample preparation, inspection rules, labeling, packaging, transportation and storage of fertilizer grade potassium humate.

The corresponding test methods are described.

This document applies to the research and development, production, testing and evaluation of fertilizer-grade potassium humate.

2 Normative references

GB/T 191

GB/T 6679

GB/T 8170

GB/T 8569

GB/T 17767.3

GB 18382

GB/T 24891

GB/T 38073-2019

GB 38400-2019

GB/T 40461

JJF1070

NY/T 525

3 Terms and definitions

The terms and definitions defined in GB/T 38073-2019 and the following apply to this document.

3.1

Potassium humate fertilizer is made by reacting mineral humic acid with potassium hydroxide under certain conditions.

3.2 Soluble humic acid

Humic acid fertilizers and humate products are obtained by extraction with water and acid precipitation, and the humic acid is in ionic state in the extract.

Note. Soluble humic acid is the main technical indicator for measuring humic acid fertilizers and humate products.

[Source. GB/T 38073-2019, 2.1.9]