

ICS 13.080.10

CCS B 10



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

GB/T 44971-2024

Soil selenium grade

土壤硒含量等级

Issued on: November 28, 2024

Implemented on: March 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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.

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This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee on Soil Quality Standardization (SAC/TC404).

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1 Scope

This document specifies the requirements for soil selenium content classification and describes the sampling and detection methods.

This document is applicable to the classification of selenium content in agricultural land soils, and can be used as a reference for the classification of selenium content in other types of soils.

2 Normative references

NY/T 1104

NY/T 1121.1

NY/T 1121.2

NY/T 3420

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Total selenium in soil

The sum of the selenium content in all forms of selenium in soil.

3.2

Selenium in the soil that can be absorbed and utilized by crops.

Note. Including but not limited to water-soluble and exchangeable selenate ions, selenite ions, selenium-containing organic small molecules and nano-selenium.

4 Classification of soil selenium content

The classification of soil selenium content should comply with the requirements of Table 1.

Table 1 Classification of soil selenium content

Soil Selenium Level	pH Value	Total selenium content in soil (x)a mg/kg	Available selenium content in soil (y)a mg/kg	illustrate	
High Selenium	$x > 3.0$	$y > 0.50$	Selenium in edible agricultural products produced	The content may be too high	
Selenium-rich	$pH \leq 5.5$	$0.40 < x \leq 3.0$	$5.5 < pH \leq 7.5$	$0.35 < x \leq 3.0$	$pH > 7.5$
Producing selenium-rich edible agricultural products	$0.30 < x \leq 3.0$	$0.05 < y \leq 0.50$			
Product potential					