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

GB/T 35881-2018

**Inspection of grain and oils -- Determination of yellow-colored
kernel of paddy -- Image analysis method**

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Foreword

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

This standard proposed by the State Food Administration.

This standard by the National Cereals and Oils Standardization Technical Committee (SAC/TC270) centralized.

This standard was drafted. Beijing Oriental Fu De Technology Development Center, Zhejiang Grain and Oil Products Quality Inspection Center.

1 Scope

This standard specifies the use of image analysis method for the determination of rice yellow rice content of the terms and definitions, principles, equipment, sampling and sub-sampling, operation step

Steps, results and repeatability, reproducibility and other requirements.

This standard applies to the determination of rice and rice yellow rice content.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1354 rice

GB/T 5491 grain, oil test sampling, sub-sample method

GB/T 5496 grain, oil test yellow tablets and crack grain test method

LS/T 1533 rice color yellowness index standard sample

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Yellow rice yellow-colored kernel

The endosperm is yellow, the color is obviously different from the normal rice grains, and the color yellowness index rice standard sample complies with the color of LS/T 1533

Consistent or deeper rice grain.

3.2

Image acquisition image acquisition

Gather samples of the image, and the image information into the system can identify the process of information.

3.3

Image analysis image analysis

Using mathematical methods to collect the image information to determine the process of analysis.

4 principle

According to the difference between the color of yellow rice grains and normal rice grains and the color consistency of standard yellow color index of rice, image acquisition

And image analysis technology, combined with human-assisted, automatic determination of yellow rice, and calculate the yellow rice accounted for the determination of the sample mass fraction.

5 instruments

5.1 rice appearance quality tester. with image acquisition and image analysis, can automatically detect, calculate and display the content of yellow rice; large