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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/T 29371.5-2012

**Technical rules for seed production system of two-line hybrid
rice-Part 5: Technical rules for identification of variety purity &
male sterility of MS line**

两系杂交水稻种子生产体系技术规范

第 5 部分：种子纯度鉴定和不育系育性监测技术规范

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Foreword

GB/T 29371 *Technical rules for seed producing system of two-line hybrid rice* consists of five parts are as follows:

- Part 1: Terminology;
- Part 2: Technical rules for foundation seed production of photo/thermo-sensitive genic male sterile line;
- Part 3: Technical rules for seed multiplication of photo/thermo-sensitive genic male sterile line;
- Part 4: Technical rules for F1 seed production;
- Part 5: Technical rules for identification of variety purity & male sterility of MS line.

This is Part 5 of GB/T 29371.

This Part is drafted according to the rules specified in GB/T 1.1-2009

This Part is proposed by Ministry of Agriculture of the People's Republic of China.

This Part is under the jurisdiction of National Technical Committee (SAC/TC 37) on Crop Seed of Standardization Administration of China.

The responsible drafting organizations are Hunan Hybrid Rice Research Center, Hunan Longping Seed Industry Co., Ltd, Hunan Agricultural University, Hunan Seed Administration, Anhui Academy of Agriculture, Jiangsu Academy of Agriculture and Guangdong Academy of Agriculture.

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Technical rules for seed production system of two-line hybrid rice-Part 5: Technical rules for identification of variety purity & male sterility of MS line

1 Scope

This section of GB/T 29371 specifies methods and procedures for monitoring the critical temperature for inducing male sterility of the photo/thermo-sensitive genic male sterile line of rice of the high temperature inducing male sterility line and identifying the purity of male sterile seeds and hybrid seeds planting.

This section is applicable to monitoring of the determined or identified critical temperature for inducing male sterility of photo/thermo-sensitive genic male sterile line of the high temperature inducing male sterility line and identification of the purity of male sterile seeds and hybrid seeds planting.

2 Normative references

The articles contained in the following documents have become this standard 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 Standard.

GB 4404.1-2008 Seed of food crops - Part 1: Cereals

GB/T 3543.2-1995 Rules for agricultural seed testing-Sampling

3 Fertility monitoring of sterile line

3.1 Monitoring of climate chamber

3.1.1 Monitoring materials and requirements

3.1.1.1 Monitoring materials

Photo/thermo-sensitive genic male sterile line of rice pass the approval or technical identification of provincial or above level Crop Variety Approval Committee and being used in production.

3.1.1.2 Material requirements

300g-500g seeds with germination rate of $\geq 80\%$ and purity of $\geq 99.5\%$ are required for identification materials, and the breed standard when sterile line passed the approval or identification shall be provided.

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