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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
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GB/T 29371.1-2012

**Technical rules for seed producing system of two-line
hybrid rice—Part 1: Terminology**
两系杂交水稻种子生产体系技术规范
第 1 部分：术语

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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 1 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 producing system of two-line hybrid rice—Part 1: Terminology

1 Scope

This section of GB/T 29371 defines terms related to rice foundation seed production of the photo/thermo-sensitive genic male sterile line, multiplication of certified seed of sterile line, two-line hybrid seed production, seed purity identification and male sterility monitoring.

This section applies to two-line hybrid rice seed production.

2 Terms and definitions

The following terms and definitions are applicable to this Document.

2.1

Photo/thermo-sensitive genic male sterile line

The rice that has the recessive male infertility nuclear genes which are sensitive to photoperiod and temperature conditions of the environment and the variation of the photoperiod and temperature can induce its fertility transition is expressed by the capital of "S". According to different reactions of the fertility transition to the photoperiod and temperature, photo/thermo-sensitive genic male sterile lines are divided into three categories of photo-sensitive, thermo-sensitive and thermo-photo co-inducing male sterile line.

2.1.1

Photoperiod-sensitive genic male sterile line

The sterile lines that the light period is the determining factor for fertility transition within the photo-sensitive temperature range include two categories, long photo-period inducing male sterile line and short photo-period inducing male sterile line.

2.1.1.1

Long photo-period inducing male sterile line

The sterile lines that long photo-period can induce the sterility and short photo-period can induce fertility within the photo-sensitive temperature range.

2.1.1.2

Short photo-period inducing male sterile line

The sterile lines that short photo-period can induce the sterility and long photo-period can

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