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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 29371.3-2012

**Technical rules for seed producing system of two-line hybrid
rice—Part 3: Technical -rules—for seed-multiplication of
photo/thermo---sensitive genic male sterile line
两系杂交水稻种子生产体系技术规范 第 3 部分：不
育系大田用种繁殖技术规范**

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Quarantine of the People's Republic of China and Standardization
Administration of the People's Republic of China**

Contents

Foreword	1
1 Scope	2
2 Requirements for breeding base	2
3 Arrangement for breeding season	3
4 Sowing and seedling	4
5 Transplanting	5
6 Cultivation management	6
7 Cold water irrigation	7
8 Remove hybrid and keep pure breed	7
9 Reaping and suning	9

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 3 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 3: Technical -rules—for seed-multiplication of photo/thermo---sensitive genic male sterile line

1 Scope

The part of the GB/T 29371 stipulates the conditions and technical requirements for high-temperature sterile rice and photo/thermo-sensitive genic male sterile lines with cold irrigation breeding, Hainan breeding and japonica photo-sensitive genic male sterile lines Autumn breeding.

The part applies to high-temperature sterile rice and photo/thermo-sensitive genic male sterile lines with cold irrigation breeding, Hainan breeding, japonica rice photo-sensitive genic male sterile lines Autumn breeding, and Hainan breeding.

2 Requirements for breeding base

2.1 Insulation

Breeding field isolation spacing of indica shall be ≥ 200 m, that of japonica rice shall be ≥ 300 m, or the time interval between initial heading stage of other rice and breeding male sterile line in isolation area shall be ≥ 25 d.

2.2 Quarantine

The breeding field is centralized and contiguous, with adequate sunlight, but without the plant quarantine objects in the same family.

2.3 Cold irrigation breeding water source

With adequate water source and water temperature shall be $\leq 19^{\circ}\text{C}$. Capacity of reservoir matches with available breeding area:

—Capacity of reservoir is below $1 \times 10^7 \text{ m}^3$, and the available breeding area is below 3 hm^2 ;

—Capacity of reservoir is $1 \times 10^7 \text{ m}^3 - 2 \times 10^7 \text{ m}^3$, and the available breeding area is $3 \text{ hm}^2 - 13 \text{ hm}^2$;

—Capacity of reservoir is above $2 \times 10^7 \text{ m}^3$, and the available breeding area is 13 hm^2 or above;

2.4 Cold irrigation breeding drainage and irrigation facility standard

The drainage and irrigation facility of cold irrigation breeding farm shall be subject to

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