

# SN

PROFESSIONAL STANDARD OF THE PEOPLE'S  
REPUBLIC OF CHINA

中华人民共和国出入境检验检疫行业标准

SN/T 1204-2003

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Protocol of the real-time PCR for detecting genetically  
modified plants and their derived products

植物及其加工产品中转基因成分实时荧光 PCR 定性  
检验方法

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General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China

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## **Foreword**

This Standard is proposed and under the jurisdiction of Certification and Accreditation Administration of the People's Republic of China.

The responsible drafting organizations are General Office of Animal & Plant Quarantine of General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China, Guangdong Entry-Exit Inspection and Quarantine Bureau of PR. China, Liaoning Entry-Exit Inspection and Quarantine Bureau of PR. China, Shenzhen Entry-Exit Inspection and Quarantine Bureau of PR. China, Shanghai Entry-Exit Inspection and Quarantine Bureau of PR. China.

The chief drafting staff of this standard includes Zhu Shuifang, Qin Wen, Cao Jijuan, Zhang Guiming, Pan Liangwen, Huang Wensheng and Chen Hongyun.

This standard is inspection and quarantine industry standard which issued for the first time.

# Protocol of the Real-Time PCR for Detecting Genetically Modified Plants and Their Derived Products

## 1 Scope

This standard stipulates the real-time fluorescence PCR qualitative testing method of the genetically modified ingredients in plants and its derived products.

This standard applies to the real-time PCR detection or the verification test of other detection protocols that show a positive result for genetically modified corns, soybeans, rapeseeds, potatoes, tomatoes, cottons, tobaccos and their derived products.

## 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 (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 6682 Water for analytical laboratory use - Specification and test methods

SN/T 1193 General requirements for the laboratories for gene detection and identification

SN/T 1194 Methods of sampling and preparation of samples for detection of genetically modified components in plants and their derived products

## 3 Abbreviations

The following abbreviations are applicable to this Specification.

**3.1** AmpErase UNG Enzyme: uracil *N*-glycosylase.

**3.2**  $C_t$  Value:  $C_t$ , cycle threshold, the cycle number that the fluorescence signal in each reaction tube is subjected to when it reaches the set threshold value.

**3.3** IPC: internal positive control.

**3.4** NTC: no template control.

**3.5** PCR: polymerase chain reaction, PCR for short.

**3.6** DNA: deoxyribonucleic acid.



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