



**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 1202-2010

Replace SN/T 1202-2003

**Protocol of the qualitative polymerase chain reaction for
detecting genetically modified plant components in food
食品中转基因植物成分定性 PCR 检测方法**

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Quarantine of the People's Republic of China**

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Foreword

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

This standard will replace SN/T 1202—2003 *Protocol of the Qualitative Polymerase Chain Reaction for Detecting Genetically Modified Plant Components in Food*.

This Standard, in comparison with SN/T 1202-2003, has the major technical changes as follows:

- Standardize terminology and presentation form;
- Adjust the applicable scope of the standard (Charter 1 of 2003 Version; Charter 1 of this Version), delete food that uses rapeseed oil and cottonseed oil as raw materials, delete food additives, and add food that uses rice and wheat as raw materials;
- Adjust normative references (Charter 2 of 2003 Version; Charter 2 of this Version), and introduce the GB/T19495 series of standards.
- Rearrange the presentation of preparation of samples to be detected (6.4.1 of 2003 Version; 6.4.1 of this Version), and add the pre-treatment method to the specific type of samples;
- Introduce the method defined in the GB/T19495.3 for the part of applying CTAB method (6.4.2.1 and 6.4.2.2 of 2003 Version; 6.4.2.1 of this Version) during the extraction of DNA from food;
- Introduce the method defined in the GB/T19495.3 for the quantification (6.4.3 of 2003 Version; 6.4.3 of this Version) of nucleic acid in food;
- Modify the PCR amplification reaction types in the qualitative PCR detection steps (6.4.4 of 2003 Version; 6.4.4 of this Version), delete the fluorescence PCR method(incorporation method), add the real-time PCR method, and accordingly add the method for judging the results of real-time PCR detection in the result judging steps (6.5 of 2003 Version; 6.5 of this Version);
- Rearrange the presentation of the normal PCR amplification reaction and result judgment (6.3.14, 6.4.4, 6.5, Table 1 and Table 4 of 2003 Version; 6.3.20, 6.4.4.1, 6.5.1, Table 1, Table 3 and Table 4 of this Version), modify reaction system, add primer sequence, and modify the verification test method.

The Standard was proposed and centralized by Certification and Accreditation

Administration of the People's Republic of China.

This Standard is drafted by: Guangdong Administration of the Entry-Exit Inspection and Quarantine Services of the People's Republic of China and Chinese Academy of Inspection and Quarantine.

The main drafters of this Standard: Gao Dongwei, Li Danning, Chen Yonghong, Zhong Yuqing, Zhang Jun, Dong Jie, Xu Baoliang, Chen Yuanshu, Xie Peixin.

The issuances of previous versions of the standard replaced by this standard are as follows:

——SN/T 1202—2003.

Protocol of the qualitative polymerase chain reaction for detecting genetically modified plant components in food

1. Scope

This standard specifies the method of the qualitative polymerase chain reaction for detecting genetically modified plant components in food

This standard applies to the qualitative PCR for detecting genetically modified soybean (Genetically modified soybean), corn (176, Btl, Mon810, T14/T25, GA21 and CBH351), tomato (1345-4, 351N, 5345, 8338, FLAVR SAVR, BioScien, 8805R and Zeneca[®]), potato (NewLeaf[®] Y, NewLeaf[®] Plus and NewLeaf[®]), rice (Bt63) and wheat components in semifinal food and final food that uses soybean, corn, tomato, potato, rice wheat and other agricultural products and their deprived products as raw material. The semifinal and final food to which this standard is applicable shall not include any condiment and edible oil and fat.

This standard can be detected out 0.1% of genetically modified component contained in food that uses soybean, corn, tomato, potato, rice and wheat as main materials.

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

GB/T 19495.2 Detection of genetically modified organism and derived products-
General requirements for laboratories

GB/T 19495.3 Detection of genetically modified organisms and derived
products-Nucleic acid extraction

GB/T 19495.7 Detection of genetically modified organisms and derived products
Methods for sampling and sample preparation

GB/T 27025 General requirements for the competence of testing and calibration
laboratories

SN/T 1204 Protocol of the real-time PCR for detecting genetically modified plants



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