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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 1961.10-2013

**Detection of allergen components in food for export. Part 10:
Real time PCR method for detecting shrimp and crab
components**

(English Translation)

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Foreword

SN/T 1961 "export of food allergens detection" is divided into 19 parts.

- Part 1. enzyme-linked immunosorbent assay peanut ingredients;
- Part 2. real-time PCR was used to detect peanut ingredients;
- Part 3. enzyme-linked immunosorbent assay buckwheat protein component;
- Part 4. real-time PCR method for detection of cashew component;
- Part 5. real-time PCR method to detect pistachios ingredients;
- Part 6. real-time PCR method to detect walnut ingredients;
- Part 7. real-time PCR method to detect carrot ingredient;
- Part 8. real-time PCR method for detecting hazelnut ingredients;
- Part 9. real-time PCR method for detection of almond ingredients;
- Part 10. real-time PCR method to detect shrimp/crab ingredients;
- Part 11. real-time PCR method to detect gluten ingredients;
- Part 12. real-time PCR method for detection of sesame ingredients;
- Part 13. real-time PCR method to detect wheat component;
- Part 14. real-time PCR method to detect fish ingredients;
- Part 15. real-time PCR method for detection of celery ingredients;
- Part 16. real-time PCR method for detection of mustard ingredients;
- Part 17. real-time PCR method for detection of lupine ingredient;
- Part 18. real-time PCR method for detecting buckwheat ingredients;
- Part 19. real-time PCR method to detect soy ingredients.

This section SN/T 1961 Part 10.

This section drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This part of the main drafting units. China Inspection and Quarantine Science Research Institute, People's Republic of China Jiangsu Exit Inspection and Quarantine, People's Republic of China Liaoning Entry-Exit Inspection and Quarantine People's Republic of China, Zhejiang, Shanghai Hui Rui biotechnology company.

1 Scope

SN/T 1961 provisions of this part of the allergens in food shrimp/crab component real-time PCR detection method.

This section applies to food and raw materials in the qualitative detection of allergy original shrimp/crab ingredients.

This part of the minimum detection limit (LOD) of 0.01% (mass fraction).

2 Normative references

The following documents for the application of this document is essential. For cited documents with dates, only the dated edition applies to this document.

For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 27403 laboratory quality control of food molecular biology standardized testing

3 Terms and Definitions

The following terms and definitions apply to this document.

Allergen alergen

Also known as allergens or allergens, can cause allergic reactions refers to an antigen.

Allergens shrimp/crab ingredient Also known allergen or allergens allergen, is the ability to make people allergic antigens. Shrimp/crab contains a variety of complex allergenic ingredients, Protein is the main allergenic ingredients. Its consumption of allergenic

symptoms mainly produce different degrees of skin irritation, such as redness and itching and other symptoms.

This standard allergens shrimp/crab component refers shrimp/crab-specific DNA fragments.

Real-time fluorescence Join fluorophore in the PCR reaction system, the use of real-time monitoring of the accumulation of the fluorescent signal of the PCR amplification process.

Ct values

When the number of cycles of each reaction tube fluorescent signal reaches the set value of the field experienced.

4 Method summary

After homogenisation of the sample, extract the DNA, DNA as a template, respectively shrimp (16SrRNA)/crab (cytochrome and 16SrRNA) each specific detection of gene primers and probes for real-time fluorescence PCR amplification was observed in any real-time PCR a pair of primers and probes.