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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 2910.4-2012

Identification method of irradiated food for export. Part 4: Thermoluminescence method

出口辐照食品的鉴别方法 第4部分：热释光法

(English Translation)

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Foreword

SN/T 2910 "Identification of irradiated food outlet" is divided into four parts.

--- Part 1. electron spin resonance spectroscopy;

--- Part 2. single cell gel electrophoresis;

--- Part 3. gas chromatography - mass spectrometry;

--- Part 4. TL method.

This section SN/T 2910 Part 4.

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

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

1 Scope

This section SN/T 2910 specifies the identification methods can be isolated silicate minerals irradiated food.

This section applies to fresh spinach, dehydration identification mushrooms, shrimp and pepper and other irradiated foods.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

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3 Terms and Definitions

The following terms and definitions apply to this document.

TL thermoluminescence; TL the solid by blackbody radiation, light as a carrier to capture electrons and energy savings in the heating process of the formation release phenomenon.

TL intensity TLintensity Given an heating rate of total unit temperature interval detected light. Coulomb counting or light to measure the temperature of a mark Interval integral TL intensity.

Thermoluminescence curve glowcurve Change at different temperatures TL intensity curve. Integration results thermoluminescence curve of the instrument according to the situation indicated by the count or Coulomb.

Thermoluminescence curve 1 glowcurve1 Records from the sample preparation of minerals out of the TL curve 3.5 Thermoluminescence curve 2 glowcurve2 After preparation of minerals from the sample after measuring the thermoluminescence curve 1, the normalized object known dose of radiation, remember Record to thermoluminescence curve.

TL luminous than TLglowratio Marked within a temperature interval of integration than the TL and TL curve 1 curve 2 intensity.

4 Method summary

Food silicate minerals will be accepted after ionizing radiation energy through the charge capture process is stored in the crystal lattice, through external heating,

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