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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3647-2013

Detection of shark derived material. PCR method

鲨鱼动物源性成分检测方法 PCR法

(English Translation)

Issued on: August 30, 2013 **Implemented on: March 1, 2014**

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Foreword

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

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

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau, Chinese Academy of Inspection and Quarantine, the People's Republic of China State and Jiangsu CIQ.

1 Scope

This standard specifies the method of PCR raw materials and foods of animal origin ingredients shark.

This standard (except shark liver oil and other finished products), raw materials and food suitable for the qualitative detection of animal-derived ingredients shark.

The detection limit of the assay was 0.1%.

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 GB/T 27403 laboratory quality control of food molecular biology standardized testing

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3 Abbreviations

The following abbreviations apply to this document.

DNA. deoxyribonucleic acid (deoxyribonuleicacid) dNTP. deoxynucleotide triphosphate (deoxyribonucleosidetriphosphate) CTAB. cetyl trimethyl ammonium bromide (cetyltrithylammoniumbromide) Tris. Tris (hydroxymethyl) aminomethane (tris (hydroxymethyl) aminomethane) EDTA. ethylenediaminetetraacetic acid (ethylenediaminetetraaceticacid) Taq. Thermus aquaticus bacteria (Thermusaquaticu) OD. optical density (opticaldensity)

4 Method summary

Use of cell lysate broken, chloroform extraction of proteins, ethanol precipitation to give DNA; with the extracted DNA as a template PCR amplification and agarose gel electrophoresis to detect PCR amplification products; positive PCR product was sequenced application for confirmation.

5 Reagents and materials

Unless otherwise specified, all reagents were of analytical grade or biochemical reagents. Test water line with GB/T 6682 requirements. All reagents were Pollution-free DNA enzyme dispensing container.

5.1
cetyl trimethyl ammonium bromide (CTAB).

5.2
Tris (Tris).

5.3
ethylenediaminetetraacetic acid (EDTA).

5.4
Sodium chloride (NaCl).

5.5
trichloromethane (chloroform).

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