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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3540-2013

Determination of prohibited dyes in foods for export-LC-MS/MS Method

出口食品中多种禁用着色剂的测定 液相色谱-质谱/质谱法

(English Translation)

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Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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, Ningbo Entry-Exit Inspection and Quarantine of People's Republic of China Bureau, People's Republic of China Hebei Entry-Exit Inspection and Quarantine of Hunan People's Republic of China, People's Republic of China Xiamen CIQ.

1 Scope

This standard specifies the export of food in Acid Red 52, Red 2G, quinoline yellow, patent blue, Acid Red 26, Acid Orange II, malachite green, base Violet 5BN, rhodamine B, basic orange II, basic yellow O, Disperse Blue 3, Solvent Yellow 1, Disperse Orange 3, Disperse Yellow 3, Disperse Red 1, Solvent Yellow 3, Disperse Orange 37/76, Solvent Yellow 2, light green, magenta basic assay, Citrus Red No. 2, Sudan I, Sudan II, Sudan III, IV of Sudan method.

This standard applies to candy, syrup, chili sauce, eggs, liquid milk, juice 26 colorant liquid chromatography - mass spectrometry/mass spectrometry and Confirmed.

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 Method summary

Sample aqueous alkaline colorants with n-hexane saturated aqueous acetonitrile extract cation solid-phase extraction (SPE); water-soluble acidic Colorant extracted with water by the polyamide solid-phase extraction (SPE); after a fat-soluble colorants extracted with hexane by neutral alumina SPE net of separation by reverse phase column chromatography - mass spectrometry/mass spectrometer, external standard.

4 Reagent material

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 regulations.

4.1
acetonitrile. high performance liquid chromatography.

4.2
Methanol. HPLC grade.

4.3
tert-butyl ether. high performance liquid chromatography.

4.4
acetone. HPLC fractions.

4.5
hexane. high performance liquid chromatography.

4.6
ammonia.

4.7
sodium chloride.

4.8
citric acid.

4.9
over anhydrous sodium sulfate. 650 °C burning 4h, stored in a sealed container in the back.

4.10
formic acid, the purity of >=99%.

4.11 20% citric acid solution. take 20g amount of citric acid is dissolved in water and dilute to 100mL.

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4.12 20% methanol solution. Measure 20mL of methanol was dissolved in water and dilute to 100mL.

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