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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3853-2014

Determination of kojic acid in foods for export LC-MS/MS method

出口食品中曲酸的测定 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 Jiangsu Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the kojic acid in food for export liquid chromatography - mass spectrometry/mass spectrometry.

This standard is applicable to the export of fruits, vegetables, fish, shrimp, canned meat, pastries, beverages, syrups, wines and pickles, miso, soy sauce, food Kojic vinegar liquid chromatography - mass spectrometry/mass spectrometry and confirmation.

2 Normative documents

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

3 Method summary

Solid samples were extracted with acetonitrile, liquid sample is diluted with water and added after the zinc acetate and potassium ferrocyanide precipitate by liquid

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chromatography - mass spectrometry/mass spectrometry Determination, internal standard.

4 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical reagents, water use GB/T 6682 specified in a water.

4.1
formic acid. HPLC fractions.

4.2
n-hexane.

4.3
Methanol. HPLC fractions.

4.4
acetonitrile. HPLC fractions.

Ammonium acetate 4.5. HPLC grade.

Zinc acetate 4.6. Zn (CH3COO) 2. (H2O) 2.

4.7
potassium ferrocyanide. K4Fe (CN) 6. (H2O) 3.

4.8
anhydrous sodium. Na2SO4.

4.9
anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature, store in an airtight desiccator.

4.10 0.005mol/L ammonium acetate acid solution. Accurately weigh 0.385g of ammonium acetate (4.5), dissolved in water and transferred to 1000mL capacity Bottle, add 0.3mL of formic acid (4.1) with water to volume.

4.11
zinc acetate solution (20%). Weigh accurately 23.93g zinc acetate (4.6), dissolved in water and transferred to 100mL volumetric flask, add water to volume.

4.12
potassium ferrocyanide solution (10%). Weigh accurately 11.47g potassium ferrocyanide (4.7), dissolved in water and transferred to 100mL volumetric flask with water to volume.

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4.13

n-hexane saturated acetonitrile. 100mL acetonitrile (4.4) was added to 100mL of n-hexane (4.2), followed by sufficient shaking, standing stratified Take the upper liquid.

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