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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3843-2014

Determination of monascus pigment in foods for export

出口食品中红曲色素的测定

(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. Jilin People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard provides the food for export Monascus amine, monascorubrin, pigment red yeast, red yeast flavin liquid chromatography - mass spectrometry/mass spectrometry methods.

Also it provides a HPLC method for the export of food in Monascus amine, Monascus Pigment.

This standard applies to the preparation of food for export wine, ice cream, biscuits, ham, red yeast fermented bean curd in red amine, monascorubrin, pigment red yeast, red yeast Determination of flavin and confirmation.

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.

GB/T 6682 analytical laboratory use specifications and test methods

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3.1 Method summary

Ultrasonic liquid sample water extraction volume after centrifugation, solid and semi-solid samples were dissolved in water to volume, and then extract by solid phase extraction column Purification, after the sample solution by elution volume for liquid chromatography - mass spectrometry/mass spectrometer and validation, external standard.

3.2.1 Reagents and material requirements

The method used reagents were HPLC grade water GB/T 6682 provisions of distilled water.

3.2.2 Reagents and materials

Reagents and materials used in the method are as follows.

--- Methanol. HPLC grade;

--- Formic acid. chromatography;

--- Acetonitrile. chromatography;

--- Standard substance. Monascus amine (Fmoc-8-AOC-OH, CASN O.126631-93-4, C23H27NO4), monascorubrin (Monascusred, CASN O.874807-57-5, C23H26O5), Monascus pigment (monascin, CASN O.21516-68-7, C21H26O5), red yeast flavin (ankaflavin, CASN O.50980-32-0, C23H30O5) purity of greater than or equal to 97%;

--- SPE. C18,1.0g, 6mL, or equivalent person. Before use 5mL methanol, 5mL water-activated;

--- TF microporous membrane. 0.20μm.

3.2.3 Preparation of 0.1% aqueous formic acid

1mL acid dissolved in 1000mL water.

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