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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3623-2013

Determination of dimethy fumarate in foods for export

出口食品中富马酸二甲酯的测定方法

(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, Chinese Academy of Inspection and Quarantine.

1 Scope

This standard specifies the determination of dimethyl fumarate in foods by gas chromatography - mass spectrometry (GC/MS).

This standard applies to milk, grapes, luncheon meat, moon cake, seasoning powder, milk powder and other foods Determination of dimethyl fumarate.

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

3 Method summary

Using ethyl acetate as solvent extraction Food dimethyl fumarate, and concentrated over neutral alumina and activated carbon series solid phase extraction SPE column eluent was

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concentrated and dissolved constant volume, using GC/MS measured by external standard method.

4 Reagents and materials

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

4.1
Methanol, HPLC grade.

4.2
ethyl acetate and chromatography.

4.3
anhydrous sodium. 650 °C burning 4h, cooled in a desiccator to room temperature and stored in a sealed bottle aside.

4.4
activated carbon SPE column. 500mg, 3mL or equivalent person.

4.5
neutral alumina SPE column. 1g, 3mL or equivalent person.

4.6
dimethyl fumarate standards (Dimethylfumarate, C6H8O4, CAS No. 624-49-7). purity of greater than or equal to 98%.

4.7
dimethyl fumarate stock standard solution. Weigh the appropriate amount of dimethyl fumarate standards, prepared in methanol at a concentration of 1mg/mL of Stock standard solution, set -18 °C refrigerator for a period of 12 months.

4.8
Dimethyl Fumarate working standard solution. take the right amount of dimethyl fumarate stock standard solution was diluted with methanol 10.0μg/mL work Liquid, set -18 °C refrigerator for a period of six months.

5 Apparatus

5.1
Gas chromatography - mass spectrometry. equipped with electronic bombardment source (EI).

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5.2
Organization mashed machines.

5.3
Electronic balance. a sense of volume, respectively 0.01g, 0.0001g.

5.4
Vortex.

5.5
rotary evaporator.

5.6
plug plastic centrifuge tube. 50mL.

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